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NASA CR-

OPERATIONS MANUAL

ASTP VIDEO TAPE RECORDER **GROUND SUPPORT EQUIPMENT** (AUDIO/CTE SPLITTER/INTERLEAVER)

NASA CONTRACT NAS9-13767

ADDENDUM 1 CTE SPLITTER

(NASA-CR-147885) ASTP VIDEO TAPE RECORDER GROUND SUPPORT EQUIPMENT, ADDENDUM 1 (CTE SPLITTER/BUFFER) . OPERATIONS MANUAL (Radio Corp. of America) 120 p HC \$5.50 CSCL 22D N76-31252

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OPERATIONS MANUAL

ASTP VIDEO TAPE RECORDER GROUND SUPPORT EQUIPMENT ADDENDUM 1 ADDENDUM 2 (CTE SPLITTER/BUFFER)

NASA CONTRACT NAS9-13767



Recording Systems

Government Communications &

Automated Systems, Camden, N.J.

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ADDENDUM 2

JANUARY 1, 1975

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PARTS LISTS

CTE	Splitter			
	Boar	rd Assembly,	Video/Audio Input (A2)	
	Boar	rd Assembly,	Splitter Timing (A3)	
	Boar	rd Assembly,	External Sync (A4)	
	Boar	rd Assembly,	Bessel Filter/Equalizer (AlO)	
			CTE Demux (All)	
	Boar	rd Assembly,	GSE Display (CTE) (Al2)	
	Boar	rd Assembly,	CTE Output Buffer (Al3, Al4, Al5)	

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SECTION 1

INTRODUCTION

1.1 GENERAL DESCRIPTION

The CTE Splitter, RCA Part No. 8673734-503 Addendum 1, -504 Addendum 2, is designed to extract time data from an interleaved video/audio signal.

The CTE Splitter is a rack mounting unit 7 inches high, 19 inches wide and 20 inches deep, mounted on slides for retracting from the rack. The unit weights approximately 40 pounds. The unit contains all operator controls on the front panel.

1.2 UNIT DESCRIPTION

The basic function of the CTE Splitter is to extract CTE time data from an interleaved video/audio/CTE signal and to supply the CTE time data to the CTE display on the front panel. The -504 Series also provides a buffered CTE output for three remote displays. Front panel test jacks are provided for monitoring SPLITTER V/A INPUT.

A Front Panel SYNC switch selects the source of sync signal used in the splitter. Either internal (INT) or external (EXT) may be selected. If INT SYNC is selected, the source of the sync signal is the Splitter Video (V/A) input signal. If EXT SYNC is selected, the source of the sync signal is the REGEN SYNC output of a processing amplifier (RCA TA-19).

Front panel display of the CTE TIME CODE is also provided in day, hour, minutes and seconds.

The CTE Splitter provides a front panel POWER On-Off Switch, a Power ON indicator and an indicator lamp that illuminates when the fuse is open.

All inputs and outputs, interfacing the unit with the rest of the system are

made through connectors on the rear panel of the unit.

The unit contains plug-in modules mounted in a module nest, a wired-in module located on the rear chassis and a wired-in module on the front panel. The three unit power supplies are also mounted on the rear chassis.

1.3 OPERATING REQUIREMENTS

One power source is required for operating the CTE Splitter; 115VAC, 60 cycle, single phase. The power interface is made through the 115 V ac connection (J27) located at the rear of the unit. All inputs and outputs are contained on connectors mounted on the rear panel of the unit. The unit contains a POWER On-Off switch, a Power ON Indicator and an Indicator fuse, all mounted on the unit front panel.

1.4 EQUIPMENT CHARACTERISTICS

Table 1-1 lists pertinent physical characteristics and Table 1-2 electrical characteristics for the CTE Splitter.

1.5 EQUIPMENT REQUIRED

The CTE Splitter is a self-contained unit. No external equipment is required for the operation of the unit when operated in the Internal Sync mode.

When operated in the External Sync mode, a processing amplifier (i.e., RCA TA-19) is required.

TABLE 1.1. PHYSICAL CHARACTERISTICS

ITEM	CHARACTERISTICS
Sıze	19 inches wide, 7 inches high, 20 inches deep (plus handles)
Weight	Approximately 40 pounds
Indicators	4일 현 기업 관련 등에 발표하였다. 그런 것은 학교에 가장하는 것 하는 사람들은 사람들이 가장하는 사람들은 사람들이 하는 것이다.
Power On Indicator Fuse	Dialco 95408-9 (with 220K resistor) Littelfuse 344125
Lamps Power On	NE51
Power Switch	DPST Toggle
Test Jacks	Tip Jack, metal clad type MS16108
Video Ground 15V 5V -15V	Red Black Red Red Red
Power Supplies	Lambda, type LXS
Plug-In Modules A2 - 8372840 A3 - 8372842 A4 - 8373015 A11 - 8375682 A13 - 8376197 A14 - 8376197 A15 - 8376197	Video/Audio Input Splitter Timing External Sync CTE Demultiplexer CTE Output Buffer CTE Output Buffer CTE Output Buffer
Wired-In Modules	경기를 보고 있다. 그리고 있는 것이 되었다. 그런
A10 - 8673757 A12 - 8676341	Bessel Filter/Equalizer CTE Display

TABLE 1.2. ELECTRICAL CHARACTERISTICS

ITEM	CHARACTERISTICS
Power requirements:	115 volts, 60 cycles, 1 phase, 2 amperes
SPLITTER	
V/A Input	
Level	1 V pp <u>+</u> 0.3 V pp
Impedance	75 ohms <u>+</u> 10%
Sync Input	가게 되는데 된 이 기가 있었다. 그는 문의 보이면 다음이다. 보기 그는 말로 마음이에 그는 것이 모르고 보기하고 있다.
Leve1	4.5 V pp
Impedance	75 ohms

SECTION 2

INSTALLATION

2.1 INSTALLATION

2.1.1 General

The CTE Splitter should be installed in a clean, dust-free area. An air-conditioned area with low humidity and moderate temperature is preferred.

Refer to Figure 2-1 (Installation Clearance) for diagram.

2.1.2 Installation in Rack (Refer to Figures 2-1, 2-2)

- 1. The unit is shipped with the chassis section of the slides mounted on the sides of the unit as shown in Figure 2-2.
- 2. Assemble extender bracket to slide (cabinet section) as shown in Figure 2-2, using #10 screw and two bars supplied.

Note: Extender bracket mounting position should be varied according to requirement of particular rack.

- 3. Mount assembled cabinet section into rack.
- 4. Insert unit (chassis section slides) into intermediate section slides.

2.1.3 Power Connection

The CTE Splitter is supplied with a power cord 7 feet ±6 inches long. The power cord contains a 3-wire grounding type plug for mating with a standard 3-wire grounding type convenience outlet. Since the unit may be retracted from the rack on slides, the AC power cord should be dressed in the rack to allow the unit to operate in either normal or fully extended position.

2.1.4 Signal Connection

Signal outputs and inputs are made through connectors located on the rear panel of the unit. Sufficient room should be allowed for external connections (refer to Figure 2-1 for installation clearances).

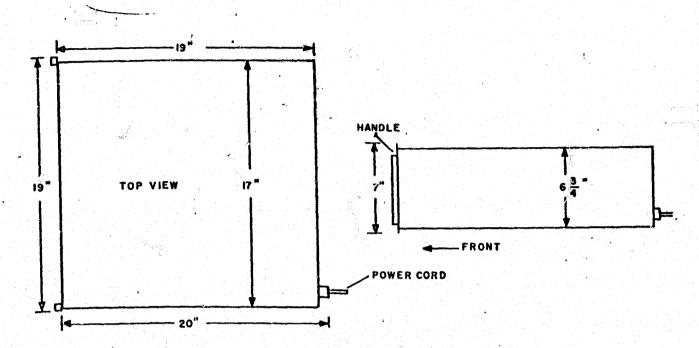


Figure 2-1. Installation Clearance

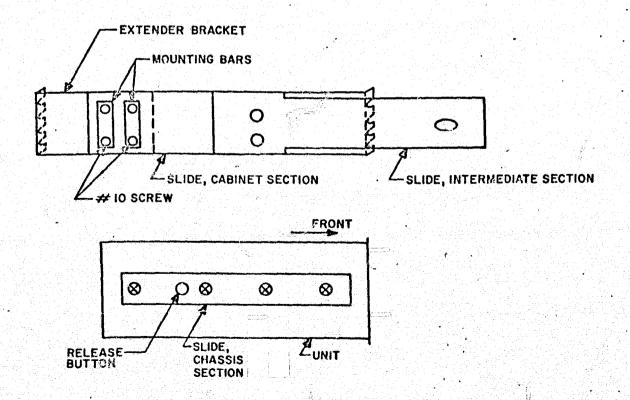


Figure 2-2. Slide, Mounting

2.2 INITIAL ADJUSTMENTS AND TESTS

To ensure that the equipment is performing properly, conduct tests outlined in Operational Procedures, paragraph 3.3

If the unit does not perform as specified, refer to Alignment Procedure, paragraph 5.3.1.

SECTION 3

OPERATION

3.1 INTRODUCTION

The splitter section extracts time data from an interleaved Video/Audio/CTE input.

Front panel test jacks are provided for monitoring splitter V/A Input.

CTE TIME CODE information is displayed on the front panel in DAY, HOUR,

MINUTE, and SECOND.

A front panel selector is provided to allow selection of either internal or external sync (REGEN SYNC from a processing amplifier).

3.2 CONTROLS AND INDICATORS

The location of the controls and indicators for the Audio Splitter/Interleaver are shown in Figure 3-1. These controls and indicators are tabulated in Table 3-1.

3.3 OPERATING PROCEDURES

3.3.1 Starting Procedure

Place POWER switch(S3) in the ON position. POWER ON indicator DS5 should illuminate. Indicator fuse holder (XF1) should not be illuminated.

3.3.2 Operation

3.3.2.1 Setup

Before operating the Splitter from a Downlink signal the CTE Splitter should be set up as described below:

TABLE 3-1. AUDIO/CTE SPLITTER/INTERLEAVER FRONT PANEL CONTROLS AND INDICATORS

ITEM	NAME	FUNCTION
DS5	ON	115 V ac applied to unit power supplies.
F1	Fuse	Indicator fuse, lights when fuse is open.
S 3	Power	Power On-Off switch.
S4	Sync	Selector switch, selects Splitter Clamp and Sample Pulse from Internal or External source.
A12	CTE Display	Displays CTE Time code data.

Test Equipment

The following test equipment (or equivalent) is required:

- 1. TV Signal Generator (Telemet Stairstep generator model 3502).
- 2. Processing Amplifier (RCA Model TA-19).
- 3. Oscilloscope (Tektronix 547 with type 1A1 plug-in).

3.3.2.1.1 Splitter Setup

- 1. Monitor the signal at the front panel SPLITTER V/A INPUT test jacks. A composite video signal level of 1.0 V pp should be present at the test jacks (refer to Figure 304).
- 2. Set front panel SYNC select switch in the INT position.
- 3. The front panel CTE DISPLAY should indicate the CTE Time Code.
- 4. Set front panel SYNC select switch in the EXT position. Perform Clamp Delay Adjustment as described in Section 5, Maintenance, paragraph 5.3.1.3.6.1.

The front panel CTE DISPLAY should indicate the CTE Time Code.

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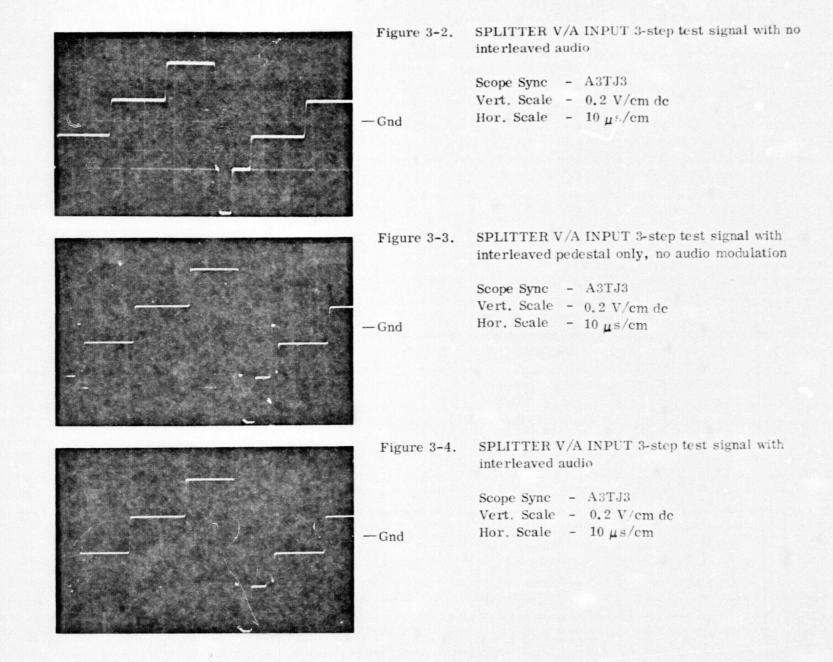
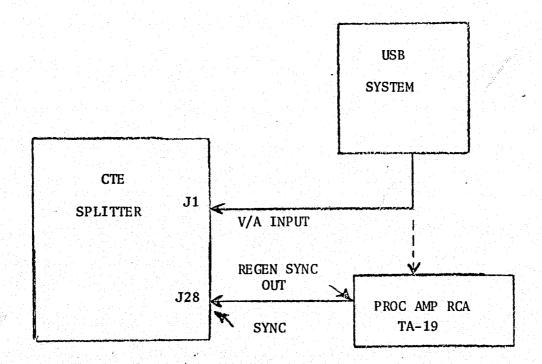


FIGURE 3.11. CTE SPLITTER USB SYSTEM CONNECTIONS (SETUP)



SECTION 4

PRINCIPLES OF OPERATION

4.1 GENERAL

The CTE Splitter detects the CTE Time Code on line 17 of the incoming VTR video signal and displays this data on a front panel display. The -504 unit also provides this signal as an output to remote indicators.

All the controls and indicators are located on the unit front panel. All inputs and outputs are made through the rear panel.

The electronic circuits associated with the above functions are located on plug-in modules accessible from the top of the unit and two board assemblies, one wired into the front panel and the other into the rear chassis.

4.2 SYSTEM OPERATION

(Refer to Figure 4-1).

4.2.1 CTE Splitter

The CTE Splitter circuit receives Video/CTE (interleaved). The CTE time data is displayed on the front panel CTE display.

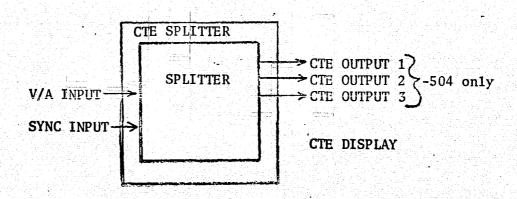
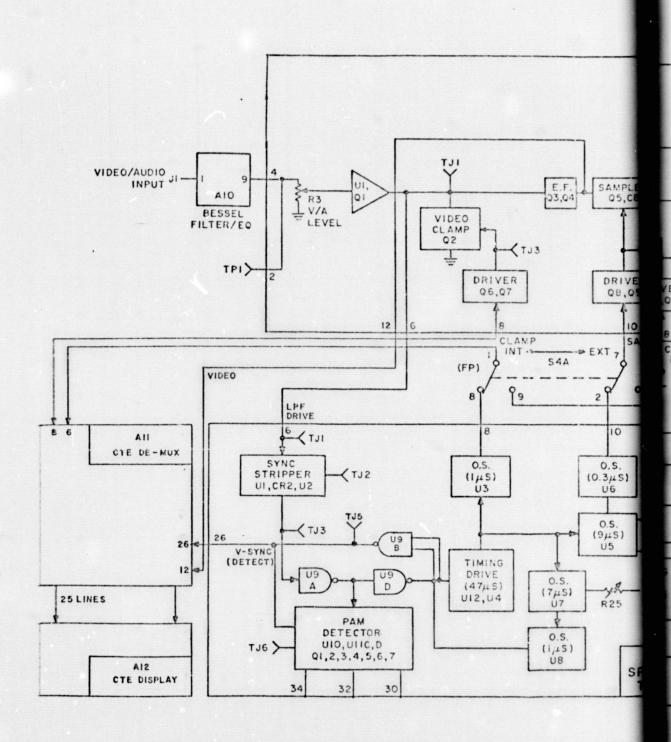


FIGURE 4.1. CTE SPLITTER SYSTEM
FUNCTIONAL BLOCK DIAGRAM.



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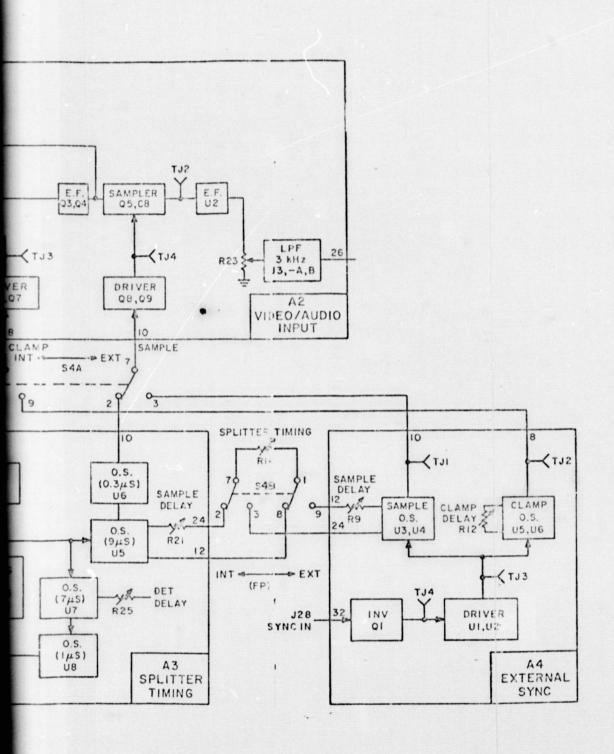


Figure 4-2. Splitter Functional Diagram.

4.3 FUNCTIONAL OPERATION

4.3.1 CTE Splitter

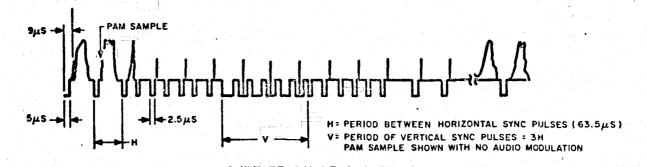
(Refer to Splitter functional diagram, Figure 4-2; Video/Audio Waveform Figure 4-3; and schematic diagram, Figure 6-1).

4.3.1.1 Video/CTE

The Video/CTE input jack (J1) is a BNC connector, located on the rear panel.

The signal at J1 may be either a real time (R/T) video signal (standard TV signal) or a video/audio/CTE (VTR, interleaved) signal. (Refer to Figure 4-3).

The video signal is fed from connector J1 through coupling capacitor C1, to the Bessel Filter/Equalizer module (A10) located on the splitter chassis. The signal enters the A10 module at pins 1 and 2 (Ground) (Refer to schematic diagram, Figure 6-11). The Bessel Filter determines the bandwidth of the splitter (1.0 MHz).



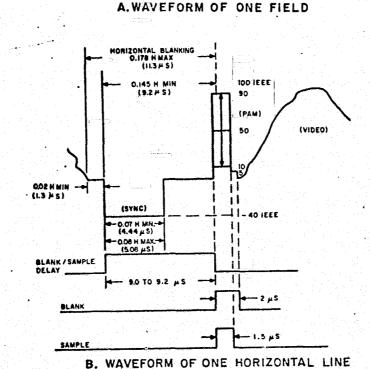


FIGURE 4.3. VIDEO/AUDIO/CTE WAVEFORM

The video signal from the output of the Bessel Filter/Equalizer A10-9 and A10-10 (Ground) is fed to the V/A Input, pin 4 and pin 3 (Ground) of the Video/Audio, Input module (A2). In the Video/Audio Input module (A2) (refer to schematic diagram, Figure 6-3), the signal is fed through the V/A LEVEL control (R3), which is adjusted for the proper level at the Video Clamp (Q2), test jack TJ1. (Refer to Table 5-1 for signal levels). From the level control the video signal is fed through an amplifier stage (U1, Q1); the gain of the stage is determined by resistors R4 and R6. The signal at the output of the amplifier follows two paths, one through the sync stripper circuit and the other to the video clamp.

4.3.1.1.1 Sync Stripper Circuit

(Refer to functional diagram, Figure 4-4, and timing diagram, Figure 4-5).

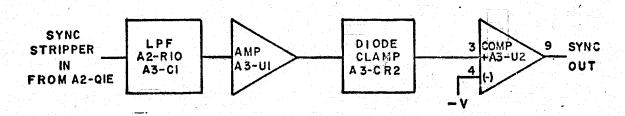


Figure 4-4. Splitter Sync Stripper Functional Diagram

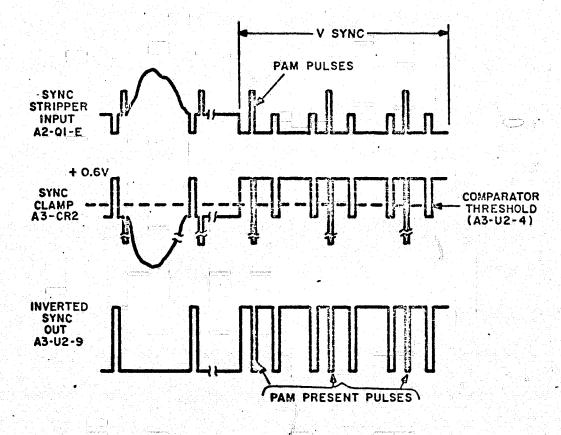


Figure 4.5. Sync Stripper Timing Diagram (Splitter)

The sync stripper detects sync from the composite TV signal (real time or V/A) and provides signal to the video clamp, timing circuits, and the PAM detector circuits. When interleaver video (V/A) is received by the unit, the output signal of the sync stripper will contain a pulse (PAM present) coincident with the PAM pulse during the vertical sync period (refer to Figure 4-5).

The sync stripper consists of a low pass filter, an amplifier, a diode clamp and a comparator.

The low pass filter, consisting of A2-R10 and A3-C1, reduces the noise bandwidth of the sync stripper, thereby allowing the sunc stripper circuit to detect sync in a low signal-to-noise signal. The output of the low pass filter is fed to the amplifier stage (refer to Splitter Timing (A3) schematic diagram, Figure 6-4).

The amplifier consists of U1 and its associated circuitry. The output of the amplifier is fed to a diode clamp (C15 and CR2) which clamps the sync tips at +0.6V.

From the diode clamp, the signal is fed to the comparator circuit Consisting of U2 and its associated circuitry. The signal is fed through R11 to the non-inverting input of U2. The inverting input is biased, through resistors R12 and R13, to a negative reference voltage, which causes the comparator output to be high when the input is more positive than the reference.

When the level at the comparator input becomes more negative than the reference, the comparator output saturates (goes to zero). The transition takes place very rapidly due to the positive feedback, formed by resistors R11 and R16.

The signal_from the output_of the sync stripper (U2) is fed to the input of inverter U9A. The output of the inverter U9A is fed to two paths, one to the Timing Circuit and the other to the PAM Detector Circuit.

4.3.1.1.2 Timing Circuit

(Refer to Splitter Timing (A3) schematic diagram, Figure 6-4). The timing circuit, consisting of one-shots U12 and U4, generates a pulse to drive the PAM detector, the sample delay circuit and the clamp circuit. The pulse is at horizontal (line) rate.

The signal into U12 is inverted sync from the output of inverter U9D. This signal is identical to that from the sync stripper U2 (refer to sync stripper, paragraph 4.3.1.1.1, and Figure 4-5).

The leading (positive-going) edge of the sync signal triggers one-shot U12 which generates a 4-µs (positive-going) pulse. The 4-µs pulse from U12 is fed to the input of one-shot U4. U4 is a non-retriggering 47-µs one-shot. The time constant of U4 is set longer than twice horizontal rate so that retrigger will not occur at this rate (during the vertical intervals).

The 47-µs pulse from the output of the timing circuit follows three paths, one to the Video Clamp circuit (Internal), one to the PAM Detector circuit, and one to the Sampling circuit (Internal).

4.3.1.1.3 Video Clamp Circuit

The Video Clamp circuit clamps the video signal (sync tip) to ground. The video clamp may be operated in two modes: Internal or External. In the Internal mode, the clamp driver source is the sync stripper (Splitter Timing module A3) output. In the External mode, the clamp driver source is the REGEN SYNC signal from an RCA TA-19 Processing Amplifier.

4.3.1.1.3.1 <u>Internal Sync</u>

(Refer to V/A Input (A2) schematic diagram, Figure 6-3; Splitter Timing (A3) schematic diagram, Figure 6-4; and Splitter Clamp and Sample timing diagram Figure 4-6).

The Video Clamp circuit (Internal Sync) consists of one-shot A3-U3, driver A2-Q6,7 and clamp A2-Q2. The clamp one-shot (A3-U3) receives a 47-ys pulse from A3-U4. The leading (positive-going) edge of the input signal triggers the one-shot which generates a 1-ys pulse (refer to timing diagram, Figure 4-6). The 1-ys pulse from

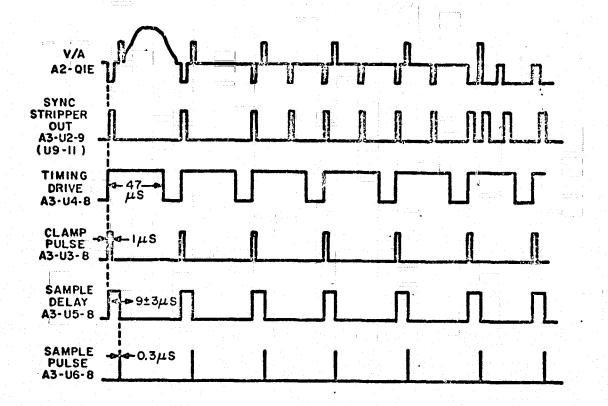


Figure 4-6. Splitter, Clamp and Sample Timing Diagram (internal sync)

the output of U3 is fed out of the Splitter Timing module on connector pin 8 (clamp pulse). From A3-8 the clamp pulse is fed to pin 8 of the sync switch (S4A) located on the front panel. When the sync switch is in the INT position, the internal clamp pulse is fed through the switch to the Video/Audio Input module (A2). In A2 the clamp pulse is fed from connector pin 8 to the clamp driver (Q6,7) which drives the video clamp (Q2). The video clamp is turned ON during the duration of the 1-µs pulse and is turned OFF when the pulse is not present. Therefore, the video signal is clamped to ground for 1µs at the leading edge of each horizontal pulse (and at horizontal rate during the vertical interval).

The signal from the video clamp (Q2) is fed through dual emitter follower (Q3,4) to the sampling switch (Q5).

4.3.1.1.3.2 External Sync

(Refer to External Sync (A4) schematic diagram, Figure 6-5; V/A Input (A2)

schematic diagram, Figure 6-3; and Splitter, Clamp and Sample timing diagram, Figure 4-7).

The external clamp circuit consists of an inverter (Q1), timing driver (U1,2), clamp delay one-shot (U5) and clamp pulse one-shot (U6) on the A4 module, sync switch (S4A on the front panel, and clamp driver (Q6,7) and clamp (Q2) on the A2 module.

The External Sync signal enters the Audio/CTE Splitter/Interleaver at the SPLITTER SYNC IN connector (J28) located on the rear panel. The sync signal is fed from J28 to A4-32 and 33 (Ground).

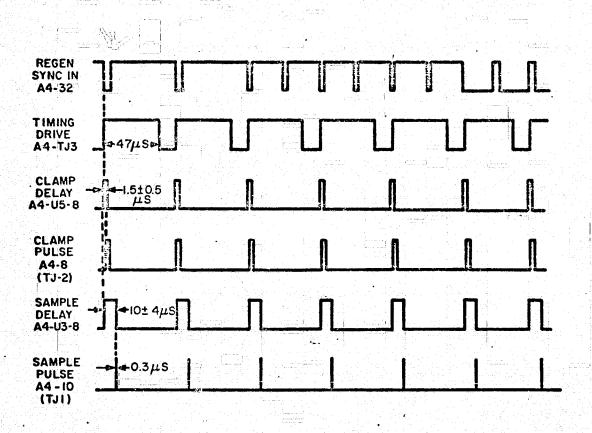


Figure 4-7. Splitter, Clamp and Sample Timing Diagram (external sync)

In the A4 module the signal is fed to inverter Q1. The output of Q1 is fed to one-shot U1. U1 triggers on the leading (positive-going) edge of the input pulse and generates a 4-µs pulse. This 4-µs pulse is fed to one-shot U2. U2 is a non-retriggering, 47-µs one-shot, so that output pulses occur only at the horizontal rate. The output signal from U2 follows two paths, one to the Clamp delay one-shot (U5) and the other to the Sample delay one-shot (U3).

Clamp delay one-shot (U5) triggers on the leading (positive-going) edge of the 47-µs input pulse and generates a positive-going pulse. The width of the pulse at the output of U5 is determined by the setting of CLAMP DELAY control R12 (approximate range 1.0 to 2.0 µs). The Clamp delay pulse is fed to the input of Clamp pulse one-shot U6. The Clamp one-shot pulse (U6) triggers on the trailing (negative-going) edge of the Clamp delay pulse; therefore, the clamp pulse one-shot (U6) generates a 1-µs wide pulse delayed by 1.5 ±0.5 µs from the leading edge of the SPLITTER SYNC input pulse.

The clamp pulse is fed from U6 to connector pin 8. From A4-8 the clamp pulse is fed to pin 9 of the SYNC switch S4A, located on the front panel. When the SYNC switch is in the EXT position, the External clamp pulse is fed through the switch to the Video/Audio Input module (A2). In A2 the External clamp pulse follows the same path as described above for the Internal clamp pulse, paragraph 4.3.1.1.3.1.

4.3.1.1.4 Sampling Circuit

The function of the Splitter Sampling circuit is to sample the V/A signal during the PAM interval, to hold the sample between PAM intervals, and to filter the sampled signal, thereby recovering the audio information.

The Sampling circuit may be operated in two modes: Internal or External. In the Internal mode, the Sampler driver source is the sync stripper (Splitter Timing module A3) output. In the External mode, the sampling circuit driver source is the REGEN SYNC signal from the RCA TA-19 Processing Amplifier.

4.3.1.1.4.1 Internal Sync

(Refer to V/A Input (A2) schematic diagram, Figure 6-3; and Splitter Timing (A3) schematic diagram, Figure 6-4).

The sampling circuit consists of dual emitter follower A2-Q3, sampler switch A2-Q5, hold capacitor A2-C8, isolation amplifier A2-U2, AUDIO LEVEL control A2-R23, active low pass filter A2-U3A, B sampler driver A2-Q8, 9, sample delay one-shot A3-U5, sample delay control A3-R21, sample pulse one-shot A3-U6, SPLITTER TIMING control (R14) and SYNC switch (S4A,B).

The Sample delay one-shot A3-U5 receives a 47-us pulse from A3-U4 (refer to paragraph 4.3.1.1.2 for description of Timing Circuit). The leading (positive-going) edge of the input signal, triggers the one-shot (refer to timing diagram, Figure 4-6) which generates a 9 ±3us pulse (adjusted by SAMPLE DELAY control A3-R21 and SPLITTER TIMING control R14). The Sample Delay pulse is fed from A3-U5 to the input of Sample pulse one-shot U6. One-shot U6 triggers on the trailing (negative-going) edge of the sample delay pulse. Therefore, the sample pulse one-shot U6 generates a 0.3-us pulse, delayed by approximately 9us from the leading edge of the splitter sync stripper output pulse.

The sample pulse signal is fed from U6-8 to connector pin 10. From A3-10 the Sample pulse is fed to pin 2 of the SYNC switch S4A located on the front panel. When the SYNC switch is in the INT position, the Internal sample pulse is fed through the switch to the Video/Audio module (A2 pin 10). In A2 the Sample pulse is fed from connector pin 10 to the sampling switch driver (Q8,9) which drives the sampling switch (Q5). The sampling switch is turned ON during the duration if the 0.3-µs sampling pulse and is turned OFF when the pulse is not present.

C8 is charged to the level of the PAM signal (at Video Clamp Q2), through emitter follower Q3,4. During the interval between sample pulses, Sampling Switch Q5 is OPEN and Capacitor C8 "holds" the sampled PAM level.

The sampled PAM signal is fed from hold capacitor Q8 through isolation amplifier U2 to AUDIO LEVEL control R23. From the arm of R23 the sampled PAM level is fed through the low pass filter (U3A,B). This is an active four-pole Butterworth low pass filter with a cutoff frequency of 3 kHz. From the output of the low pass filter (U3B) the sampled and filtered PAM signal (audio) is fed to connector pin 26 (VTR AUDIO OUTPUT).

4.3.1.1.4.2 External Sync

(Refer to V/A Input (A2) schematic diagram, Figure 6-3; External Sync (A4) schematic diagram, Figure 6-5; and Timing Diagram, Figure 4-7).

The external sampling circuit consists of dual emitter follower A2-Q3,4, sampling switch A2-Q5, hold capacitor A2-C8, emitter follower A2-U2, AUDIO LEVEL control A2-R23, active low pass filter A2-U3A,B, and sampler driver A2-Q8,9 (the above components are located on the V/A Input module (A2) and are also part of the Internal Sampling circuit described above, paragraph 4.3.1.1.2.1). The external sampling circuit also consists of A4-Q1, U1, U2 (also used in external clamp circuit), Sample Delay one-shot A4-U3 and Sample pulse one-shot A4-U4. Front panel SYNC switch (S4A,B) and SPLITTER TIMING control R14 is also used.

The external sync signal enters the Audio/CTE Splitter/Interleaver unit at the SPLITTER SYNC in connector (J28) located on the rear panel. The sync is fed from J28 to A4-32 and 33 (ground).

In the A4 module the signal is fed from connector pin 32 to inverter Q1. The output of Q1 is fed to one-shot U1. U1 triggers on the leading (positive-going) edge of the input pulse and generates a 4-µs pulse. This pulse is fed to one-shot U2. U2 is a non-retriggering 47-µs one-shot, so that output pulses occur only at the horizontal rate. The output signal from U2 follows two paths, one to the clamp delay one-shot (U5), described in paragraph 4.3.1.1.3.2 above, and the other to the sample delay one-shot (U3).

Sample delay one-shot (U3) triggers on the leading (positive-going) edge of the 47-µs input pulse and generates a positive-going pulse. The width of the pulse at the output (U3-8) is determined by the setting of the SAMPLE DELAY control (A4-R9) and the SPLITTER TIMING control (R14), located on the front panel; the width is approximately 10µs. The sample delay pulse is fed to the input of sample pulse one-shot U4. U4 triggers on the trailing (negative-going) edge of the sample delay pulse. Therefore, the sample pulse one-shot (U4) generates a 0.3-µs wide pulse delayed by approximately 10µs from the leading edge of the SPLITTER SYNC input pulse.

The sample pulse is fed from U4-8 to connector pin 10. From A4-10 the sample pulse is fed to pin 3 of the SYNC switch (S4A) located on the front panel. When the SYNC switch is in the EXT position, the External sample pulse is coupled through the switch to the Video/Audio Input module (A2). In A2 the External sample pulse follows the same path described above for the Internal Sample pulse, paragraph 4.3.1.1.4.1.

4.3.1.4 <u>Video/CTE</u>

Refer to Splitter functional diagrams Figure 4-2; CTE demux and display functional diagram, Figure 4-10; CTE demux schematic diagram, Figure 6-12; CTE display schematic diagram, Figure 6-13, and CTE mux and demux timing diagrams, Figures 4-11 and 4-12.

The CTE demux board (A11) accepts the clamp pulse and V-sync (detector) signals as timing references to operate counters which provide the controlled clock pulses for a shift register. The board also accepts the video signal which is fed into the shift register during line 17. The line 17 parallel output information is fed to the CTE display board (A12) which transfers the CTE data to LED numerical displays.

The basic clock pulses for the shift register are derived from the 629.37 kHz VCO (A11 U3). This VCO is part of a phase-locked-loop consisting of phase detector U1, active filter U2A, amplifier U2B and a 40 counter U4 and U5. The reference signal

for this phase-locked-loop is obtained from the sync tip clamp pulse, at the horizontal line rate (15.73 kHz) after passing through inverter U6A and one-shot U7. The delay timing of U7 is approximately 10 microseconds and is controlled by R16. Pulses from U7 are also applied to one input of Nand gate U13A.

The other input to U13A is obtained from set-reset flip-flop U13C,D which is triggered by the externally applied V-sync (detector) signal. The pulses from U7 are also applied to one input of Nand gate U13A.

The other input to U13A is obtained from set-reset flip-flop U13C,D which is twiggered by the externally applied V-sync (detector) signal. The pulses from the U7 are then applied through inverter U13B to a \$14 counter (U15, U14A and U14B). Because the V-sync (detector) signal occurs at line 4, the output of the \$14 counter identifies line 17, at which time flip-flop U13C,D is reset. At the start of line 17 gate U8B is turned on allowing the pulses from VCO U3 to pass on to the \$32 counter (U9, U10, U12 and U11 D,E,F.). The output from the \$32 counter passes through the low-to-high edge detector (U8D, U11A,B,C) to produce a strobe pulse which resets both counters.

Thus, a controlled group of 32 clock pulses synchronized to occur at line 17 passes on to shift register U17, U18, U19, U19. Simultaneously, the video signal is applied to the shift register data input through inverter U16 resulting in a serial-to-parallel conversion of the CTE information contained in line 17 of the video signal.

The parallel outputs of the shift register are connected to the LED display units

located on the CTE Display Module (A12), which produces a numerical day-hour-minutesecond display.

In the -504 version, the CTE information is also supplied to three remote indicators through three CTE Output Buffer modules (A13, A14, A15).

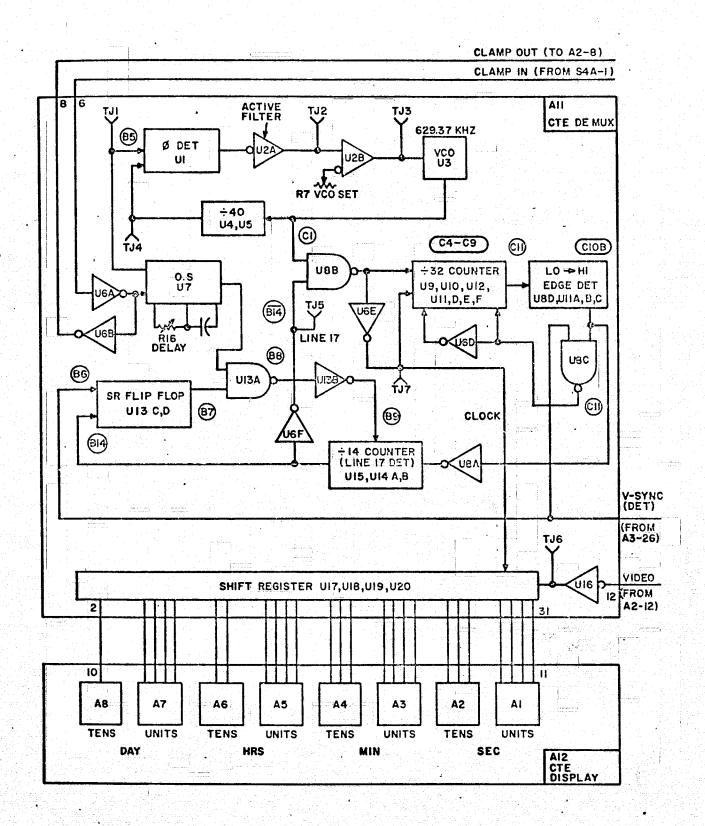


Figure 4-10. CTE Demux and Display Functional Diagram

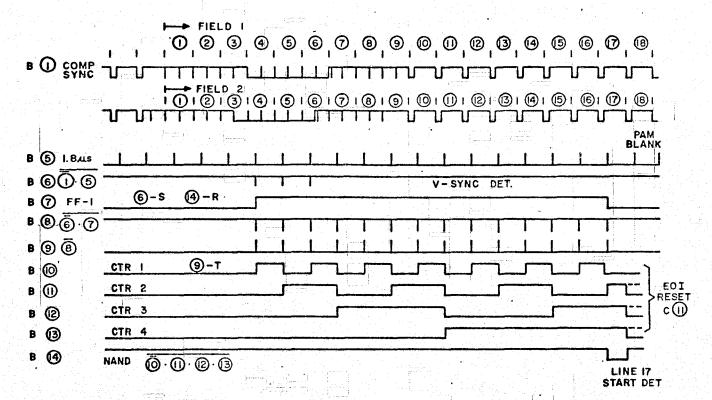


Figure 4-11. CTE Mux and Demux, Timing Diagram A

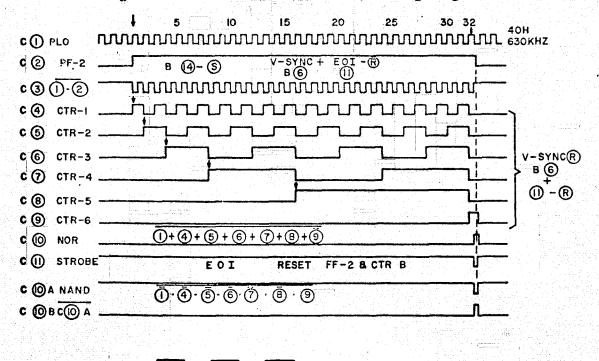


Figure 4-12. CTE Mux and Demux, Timing Diagram B

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630 KHZ

SECTION 5

MAINTENANCE

5.1 INTRODUCTION

Maintenance of the CTE Splitter is relatively simple since it may be readily checked while installed in a rack. Test jacks are provided on the plug-in modules so that key points in the circuits may be easily monitored by retracting the unit from the rack, on its slides and using an oscilloscope (refer to Figure 5-1).

This maintenance section consists of two parts: preventitive maintenance and corrective maintenance.

5.2 PREVENTIVE MAINTENANCE

Very little preventive maintenance is required. No lubrication is required.

Periodic cleaning of the unit while installed in the rack is recommended. Power supply voltages should be checked periodically at test jacks located at the rear of the unit.

The lamp of the Power On indicator is a neon type.

REPLACEMENT LAMPS

1. Power On Indicator: NE51

5.3 CORRECTIVE MAINTENANCE

5.3.1 Alignment Procedure

Refer to the following figures:

1. Figure 5-3. Top View of Unit, Test Jacks and Setup Controls

Test Equipment

The following test equipment (or equivalent) is required):

- 1. TV Signal Generator (Telemet Stairstep Generator Model 3502).
- 2. Processing Amplifier (RCA Model TA-19).
- 3. DC Voltmeter
- 4. Oscilloscope (Tektronix 547 with type 1A1 plug-in).

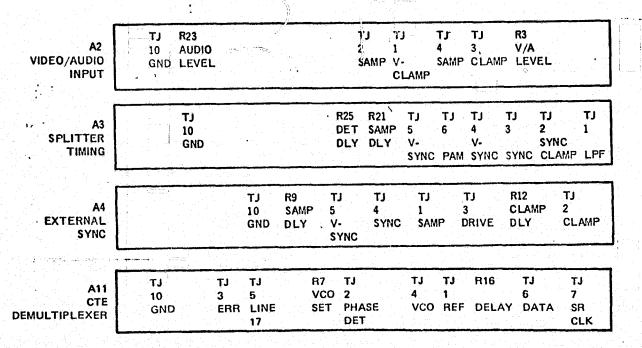


Figure 5-3. Module Nest Top View, Test Jacks and Setup Controls

5.3.1.1 DC Voltage Setup

Monitor dc voltages at test jacks on the rear panel. Voltage should be within 0.1 volt of specified voltage; if not, adjust corresponding power supply.

5.3.1.2 Splitter Alignment

(Refer to Figure 5-3 for location of module test jack and controls).

- 1. Connect the INTERLEAVED V/A/CTE to the SPLITTER V/A INPUT (J1), located on the rear panel.
- 2. Monitor the signal at the unit front panel SPLITTER V/A INPUT test jacks.

 Adjust the input for a composite video signal level of 1.0 V p-p at the test jacks (refer to Figure 3-4).

5.3.1.2.1 Video Clamp Level Adjustment (refer to Figure 5-8)

- 1. Set front panel SYNC select switch in the INT position.
- 2. Monitor the signal at test jacks A2-TJ1 (V-CLAMP). Sync scope from A3-TJ3 (SYNC).
- 3. Adjust A2R3 (V/A LEVEL) control for 2.0 V p-p at A2-TJ1.

5.3.1.2.2 Detector Timing Adjustment (refer to Figure 5-19)

- 1. Monitor signal at test jack A3-TJ6 (PAM). Set scope on internal SYNC.
- 2. Adjust A3-R25 (DET DLY) control fully clockwise. Observe waveform at test jack A3-TJ6 (PAM) and adjust A3-R25 (DET DLY control) counter-clockwise for a pulse width of 2 µs.

NOTE: No pulse will appear until A3-R25 is rotated CCW from its extreme CW position.

5.3.1.2.3 External Sync Adjustments

5.3.1.2.3.1. Clamp Delay Adjustment (refer to Figure 5-9)

- 1. Set the front panel SYNC select switch in the EXT position.
- 2. Monitor the signal at test jack A2-TJ1 (V-CLAMP). Sync scope internally.
- 3. Adjust A4-R12 (CLAMP DLY) so that the leading edge of the clamp pulse is approximately 1 us after the beginning of the horizontal sync pulse _(as shown in Figure 5-9).

5.3.1.2.3.2 Sample Delay Adjustment (refer to Figure 5-13)

- 1. Set SYNC select switch in EXT position.
- 2. Monitor the signal at test jack A2-TJ1 (V-CLAMP) using scope CH-1 and the signal at A2-TJ4 (SAMP) using scope CH-2. Use ALT sweep; sync scope from A3-TJ3 (SYNC).

3. Adjust A4-R9 (SAMP DLY) control to place the sample pulse (trailing edge) in the corner of the PAM sample.

NOTE: Sample pulse position may also be observed in the PAM pulse (A2TJ1). Sample pulse timing may, therefore, be adjusted by using only one channel of the scope.

5.3.1.2.4 CTE Demux Adjustment (refer to Figure 5-48)

- 1. Monitor signal at A11-TJ4 (VCO).
- 2. Connect shorting jumper between A11-TJ2 and A11-TJ4.
- 3. Adjust A11-R7 (VCO set) for a signal frequency of 15.74 kHz at A11-TJ4.
- 4. Remove shorting jumper.
- 5. Observe number sequence on the CTE Display (front panel.).
- 6. Adjust A11-R16 (Delay) for a number sequence presentation of 08 08 08 08.

5.3.2 Troubleshooting

For troubleshooting, refer to the following:

Functional description, Section 4, and functional diagrams, Figure 4-2 (Splitter).

Schematic diagrams, Figure 6-1 (Audio/CTE Splitter), and Figures 6-2 through 6-10 (module schematics).

Waveforms of signals at the front panel test jacks, Figures 3-2 through 3-10.

Waveforms of signals at module test jacks, Figures 5-6 through 5-54.

Location of module cest jacks and controls, Figure 5-3.

Location of components on the modules, Figures 5-55 through 5-66.

Table 5-1, Splitter Signal Levels.

Table 5-2, Interleaver Signal Levels.

NOTE: Tables 5-1 and 5-2 are for use in troubleshooting and may be used in conjunction with the corresponding functional diagram (Splitter, Figure 4-2, and Interleaver, Figure 4-13).

The connectors and jacks are listed in same order as shown in the corresponding functional diagram.

Alignment Procedures, paragraph 5.3.1.

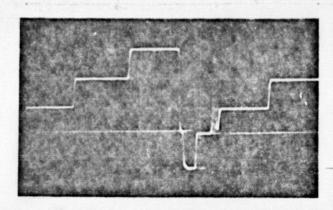


Figure 5-8. A2TJ1 V-Clamp

Scope Sync - A3TJ3 Vert. Scale - 0.5 V/cm dc Hor. Scale - 10 μs/cm

- Gnd

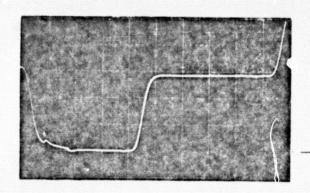


Figure 5-9. A2TJ1 V-Clamp (External Sync Clamp)

Scope Sync - INT

Vert. Scale - 0.2 V/cm de Hor. Scale - 1μ s/cm

--- Gnd

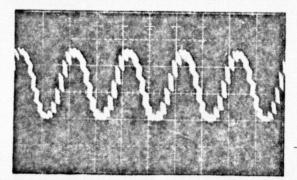


Figure 5-10. A2TJ2 Sample

Scope Sync - INT

Vert. Scale - 0.5 V/cm de Hor. Scale - 0.5 ms/cm

— Gnd

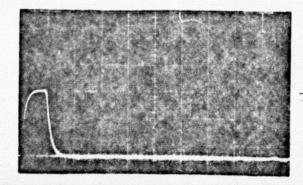
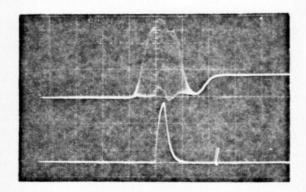
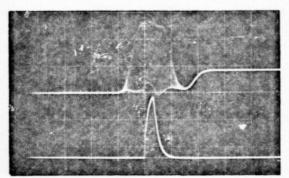


Figure 5-11. A2TJ3 Clamp

Scope Sync - A3TJ3 Vert. Scale - 5 V/cm dc Hor. Scale - $1 \mu \text{ s/cm}$





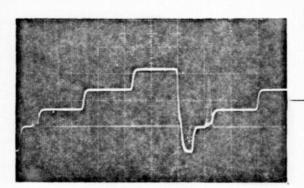


Figure 5-12. A2TJ1 V-Clamp (top)
A2TJ4 Sample (bottom), Internal

Scope Sync - A3TJ3 Vert. Scale - 0.5 V/cm (top) 5.0 V/cm (bottom) Hor. Scale - $1 \mu s/cm$

Figure 5-13. A2TJ1 V-Clamp (top)
A2TJ4 Sample (bottom), External

Scope Sync - A3TJ3 Vert. Scale - 0.5 V/cm (top) 5.0 V/cm (bottom) Hor. Scale - $1 \mu \text{s/cm}$

Figure 5-14. A3TJ1 LPF

Scope Sync - A3TJ3 Vert. Scale - 0.5 V/cm dc Hor. Scale - $10 \mu s/cm$

Figure 5-15. A3TJ2 Sync Clamp Scope Sync - A3TJ3 Vert. Scale -2.0 V/cm dc Hor. Scale - 10 4s/cm Gnd Figure 5-16. A3TJ3 Sync Scope Sync - INT Vert. Scale - 1.0 V/cm dc Hor. Scale - 2 µs/cm Gnd Figure 5-17. A3TJ4 V-Sync Scope Sync - INT Vert. Scale - 1.0 V/cm dc Hor. Scale - 2 ms/cm Gnd

Figure 5-18. A3TJ5 V-Sync (Detector) * Scope Sync - INT Vert. Scale - 1.0 V/cm dc Hor. Scale - 1 us/cm Gnd Figure 5-19. A3TJ6 PAM (Detector) Scope Sync - INT Vert. Scale - 1.0 V/cm dc Hor. Scale - 1 µs/cm Gnd Figure 5-20. A4TJ1 Sample Scope Syre - INT Vert. Scale - 1.0 V/cm dc Hor. Scale - 0.2 µs/cm Gnd

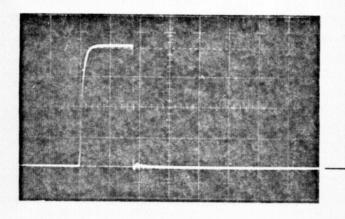


Figure 5-21. A4TJ2 Clamp

Scope Sync - INT Vert. Scale - 1.0 V/cm dc Hor. Scale - 0.5 \mu s/cm

Gnd

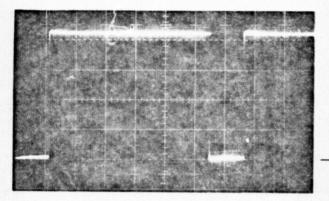


Figure 5-22. A4TJ3 Drive

Scope Sync - INT Vert. Scale - 1.0 V/cm dc Hor. Scale - 10 μs/cm

Gnd

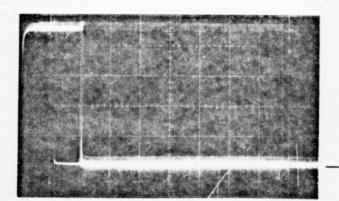


Figure 5-23. A4TJ4 Sync

Scope Sync - INT

Vert. Scale - 1.0 V/cm dc Hor. Scale - 2 μs/cm

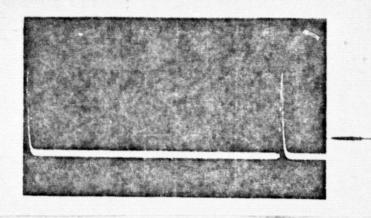


Figure 5-24. A4TJ5 V-Sync

Scope Sync - INT

Vert. Scale - 1.0 V/cm de

Hor. Scale - 2 ms/cm

Gnd

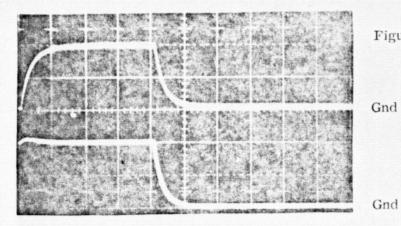


Figure 5-47. A5TJ1/A5TJ4 Reference/VCO (A11TJ1/A11TJ4 is similar)

Scope Sync - INT, Ch A, Chopped

Vert. Scale - 2 V/cm dc Hor. Scale - 0.5 \mu s/cm

Gnd

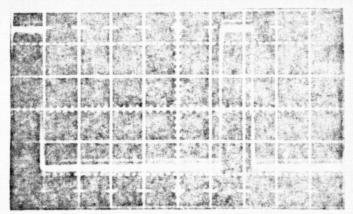


Figure 5-48. A11TJ1 Reference

Scope Sync - INT

Vert. Scale - 1 V/cm de Hor. Scale - 10 µs/cm

Gnd

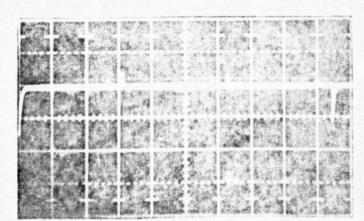


Figure 5-49. A11TJ2 Phase Detector

Scope Sync - INT

Vert. Scale - 0.2 V/cm de

Hor. Scale - 20 us/cm

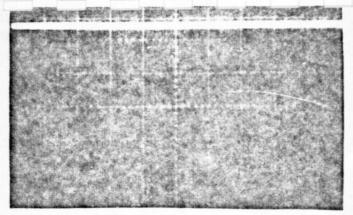


Figure 5-50. AllTJ3 Error

Scope Sync - INT

Vert. Scale - 1V/cm dc Hor. Scale - 20 \(\mu\)s/cm

Gnd

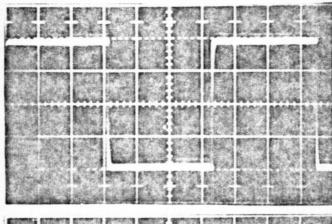


Figure 3-51. AllTJ4 VCO

Scope Sync - INT

Vert. Scale - 1 V/cm dc

Hor. Scale - 10 µs/cm

Gnd

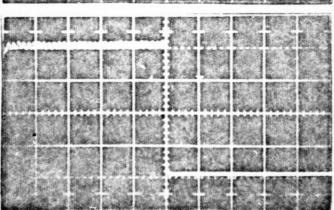


Figure 5-52. A11TJ5 Line 17

Scope Sync - INT

Vert. Scale - 1 V/cm dc Hor. Scale - 10 μ s/cm

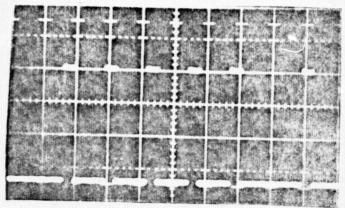


Figure 5-53. A11TJ6 Data

Scope Sync - A11TJ5 Vert. Scale - 1 V/cm dc Hor. Scale - 5 μ s/cm

Gnd

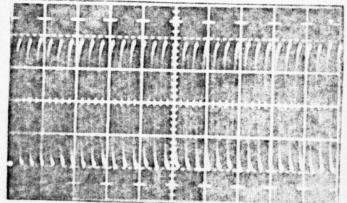


Figure 5-54. A11TJ7 Shift Register Clock

Scope Sync - A11TJ5 Vert. Scale - 1 V/cm dc Hor. Scale - 5 μs/cm

TABLE 5-1. SPLITTER SIGNAL LEVELS

(Refer to Splitter Functional Diagram, Figure 4-2; Audio/CTE Splitter/Interleaver Schematic, Figure 6-1; and Module Schematics, Figures 6-2, 6-3, 6-4, 6-5, 6-10, 6-11, 6-12, 6-13)

Connector or Test Jack	Designation	Description	Level	Reference Figures	Remarks
J1	Splitter V/A Input	TV Signal	1.0 V p-p		Rear Panel BNC connector.
A10-1		TV Signal	1.0 V p=p_		Same as J1 signal, except ac coupled.
TP1, TP2 (Gnd. (A2-4)	Splitter V/A Input	TV Signal	1.0 V p-p	3-2, 3, 4	Front Panel test jacks. (ac coupled).
A2TJ1	V-Clamp	TV Signal	2.0 V p-p	5-8, 5-9	Sync Tip at 0 V dc.
A2TJ2	Sample	Recovered Audio (unfiltered)	1.3 V p-p	5–10	
A2-6	LPF Drive	TV Signal	2.0 V p-p	SESSION CONSTRUCTION	AC coupled.
A2-8	Clamp	1-us positive- going pulse	0 to +4.1 V p-p		
A2TJ3	Clamp	1-µs positive- going pulse	-12 to 0 V p-p	5-11	
A2-10	Sample	0.3-us positive- going pulse	0 to +4.0 V p−p		

TABLE 5-1. SPLITTER SIGNAL LEVELS (Cont.)

Connector or Test Jack	Designation	Description	Level	Reference Figures	Remarks
A2TJ4	Sample	0.3-\mu s positive- going pulse	-12 to 0 V p-p	5-12	(1941년 - 1945년 - 1945년 - 1945년 - 1945 - 1945년 - 194
A3-6	LPF DRIVE	TV Signal	2.0 V p-p		Same as signal at A2-6.
A3-8	Clamp	1-µs positive- going pulse	0 to +4.1 V p-p		
A3-10	Sample	0.3-µs positive- going pulse	0 to +4.1V p-p		
A3TJ1	LPF	TV Signal	1.6 V p-p	5-14	AC coupled.
A3TJ2	Sync Clamp	TV Signal	6.8 V p-p	5–15	Sync tip at approx. +0.6 V
A3TJ3	Sync	Stripped Sync positive-going pulses	3.1 V p-p	5–16	Base line at approx0.2
A3TJ4	V-Sync	200-#s positive- going pulse	1.8 V p-p	5-17	Base line at approx0.2
A3TJ5	V-Sync (detector)	1- μ s negative- going pulse	0 to +3.7 V p-p	5 -1 8	
J28	Splitter Sync In	TV Sync	+0.4to-4.1 V p-p (75 ohm term)		Rear Panel BNC connector
A4-32					Same as signal at J28.
A4 TJ4	Sync	TV Sync	0 to +4.5 V p-p	5-23	
A4 TJ5	V-Sync	200-µs positive- going pulse	2.7 V p-p	5-24	Base line at approx0.6

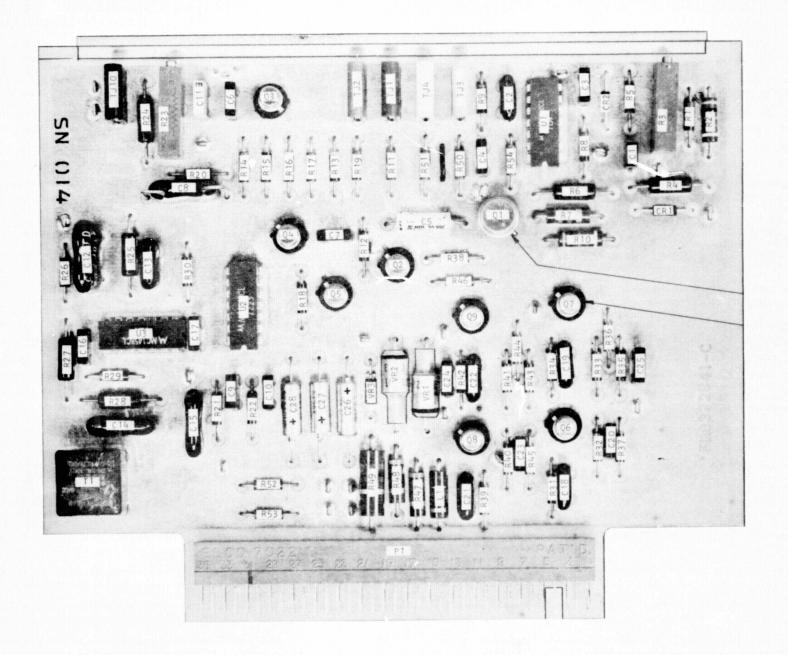


Figure 5-56. Module Layout, A2 (Video/Audio Input)

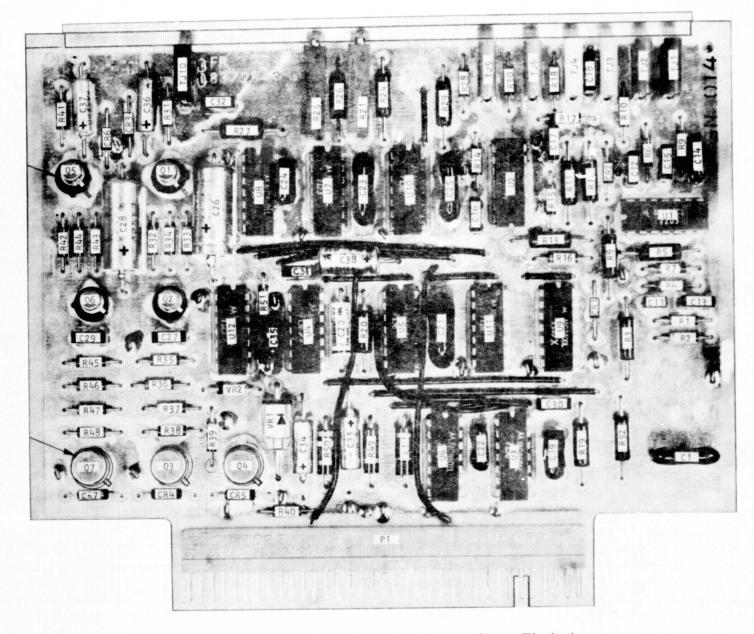


Figure 5-57. Module Layout, A3 (Splitter Timing)

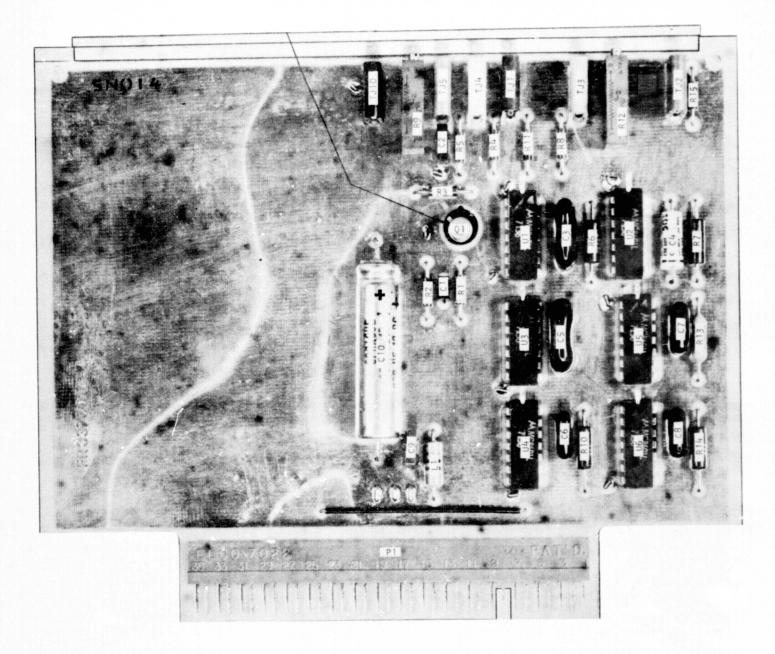


Figure 5-58. Module Layout, A4 (External Sync)

Figure 5-59. Module Layout, A5 (CTE Mux)

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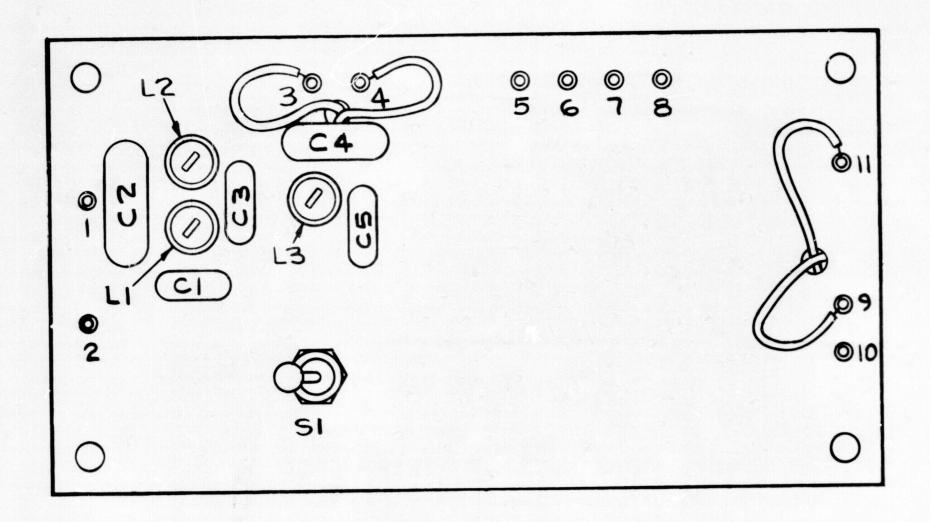


Figure 5-64. Module Layout, A10 (Bessel Filter/Equalizer)

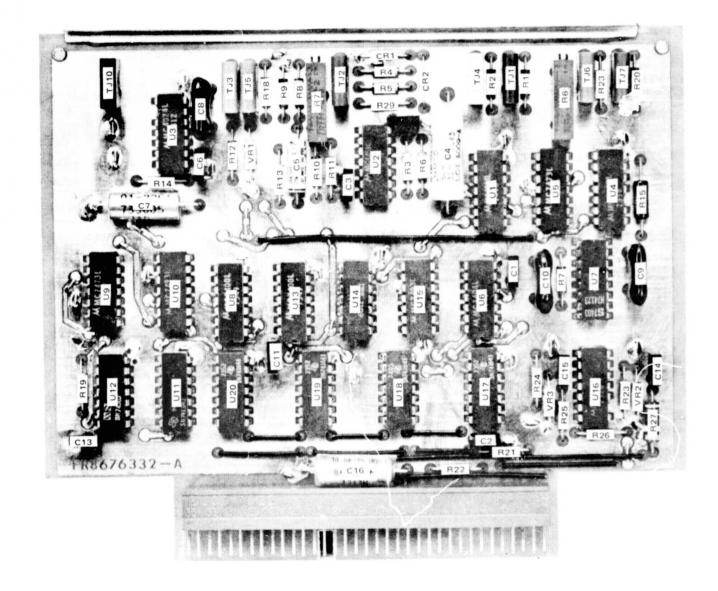


Figure 5-65. Module Layout, A11 (CTE Demux)

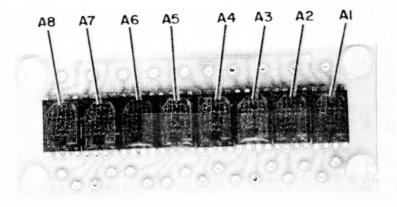


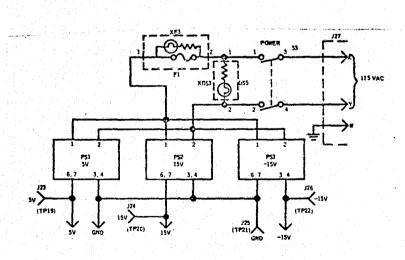
Figure 5-66. Module Layout A12 (CTE Display)

TABLE 5-1. SPLITTER SIGNAL LEVELS (Refer to Splitter Functional Diagram, Figure 4-2; Audio/CTE Splitter/Interleaver Schematic, Figure 6-1; and Module Schematics, Figures 6-2, 6-3, 6-4, 6-5, 6-10, 6-11, 6-12, 6-13)

Connector or Test Jack	Designation	Description	Level	Reference Figures	Remarks
J1	Splitter V/A Input	TV Signal	1.0 V p-p		Rear Panel BNC connector.
A10-1		TV Signal	1.0 V p-p	The Tark Control of the Control of t	Same as J1 signal, except ac coupled.
TP1, TP2 (Gnd. (A2-4)	Splitter V/A Input	TV Signal	1.0 V p-p	3-2, 3, 4	Front Panel test jacks. (ac coupled).
A2TJ1	V-Clamp	TV Signal	2.0 V p-p	5-8 , 5 - 9	Sync Tip at 0 V dc.
A2TJ2	Sample	Recovered Audio (unfiltered)	1.3 V p-p	5-10	
A2-26	VTR Audio Output	Recovered Audio (filtered)	0.4 V p-p		AC coupled.
A2-6	LPF Drive	TV Signal	2.0 V p-p		AC coupled.
A2-8	Clamp	1-us positive- going pulse	0 to +4.1 V p-p		
A2TJ3	Clamp	1-µs positive- going pulse	-12 to 0 V p-p	5-11	
A2-10	Sample	0.3-us positive- going pulse	0 to +4.0 V p-p		

SECTION 6

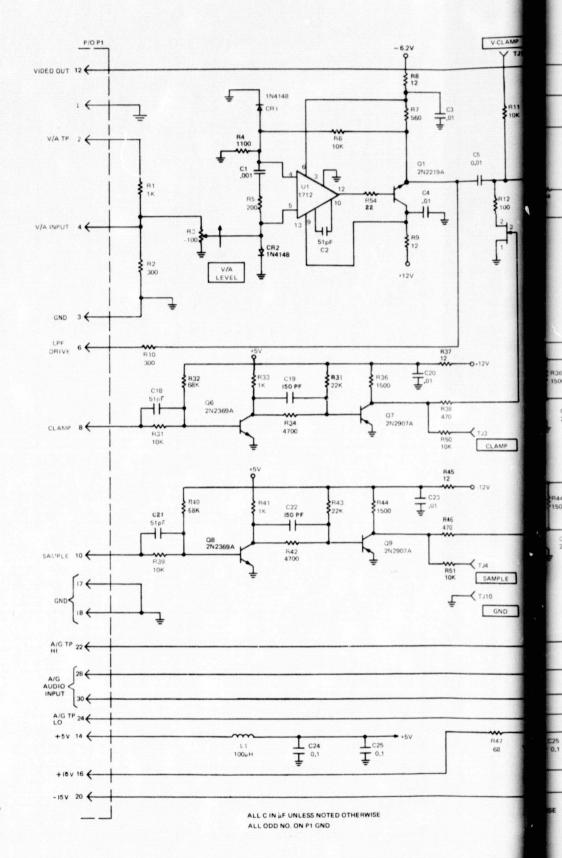
SCHEMATICS AND PARTS LISTS



(-503 UNIT)

CTE Splitter Schematic

FIG. 6-1



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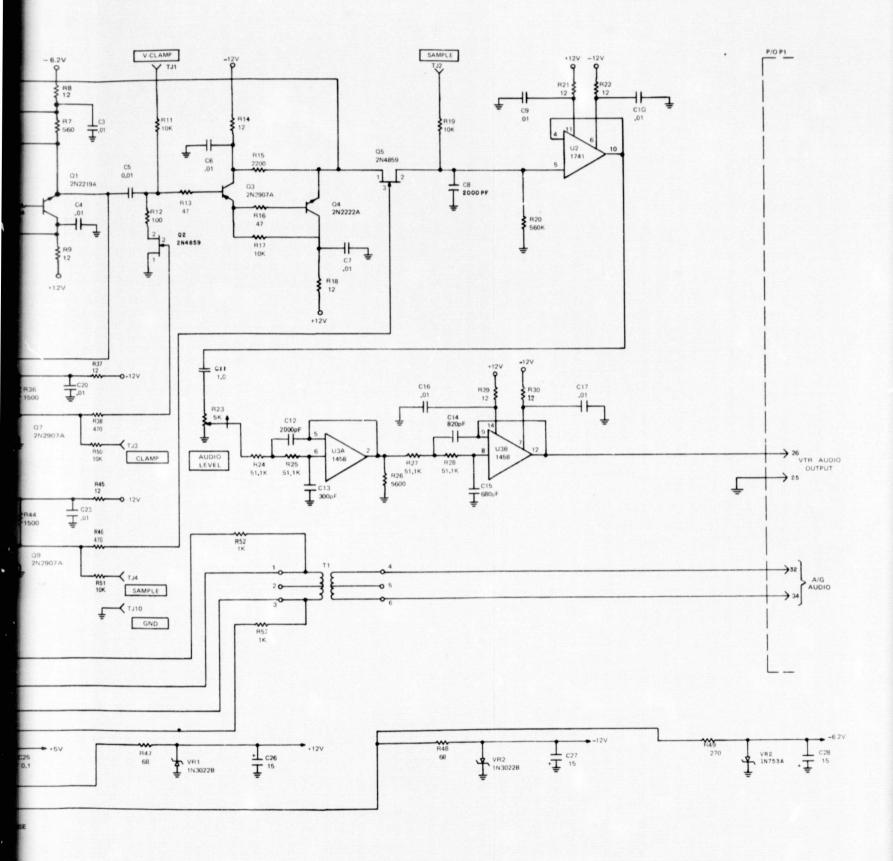
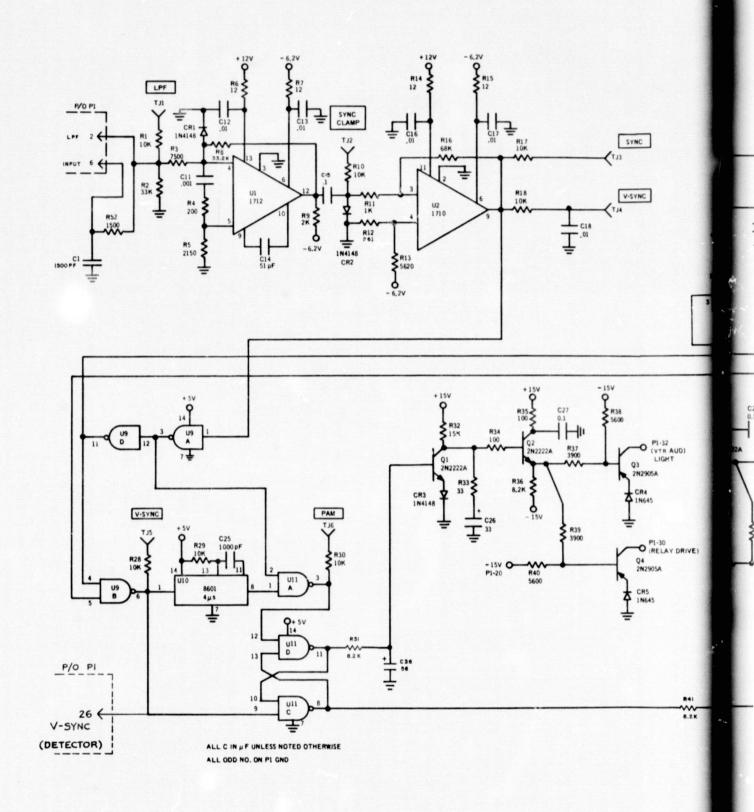


Figure 6-3. Video/Audio Input Schematic (A2)



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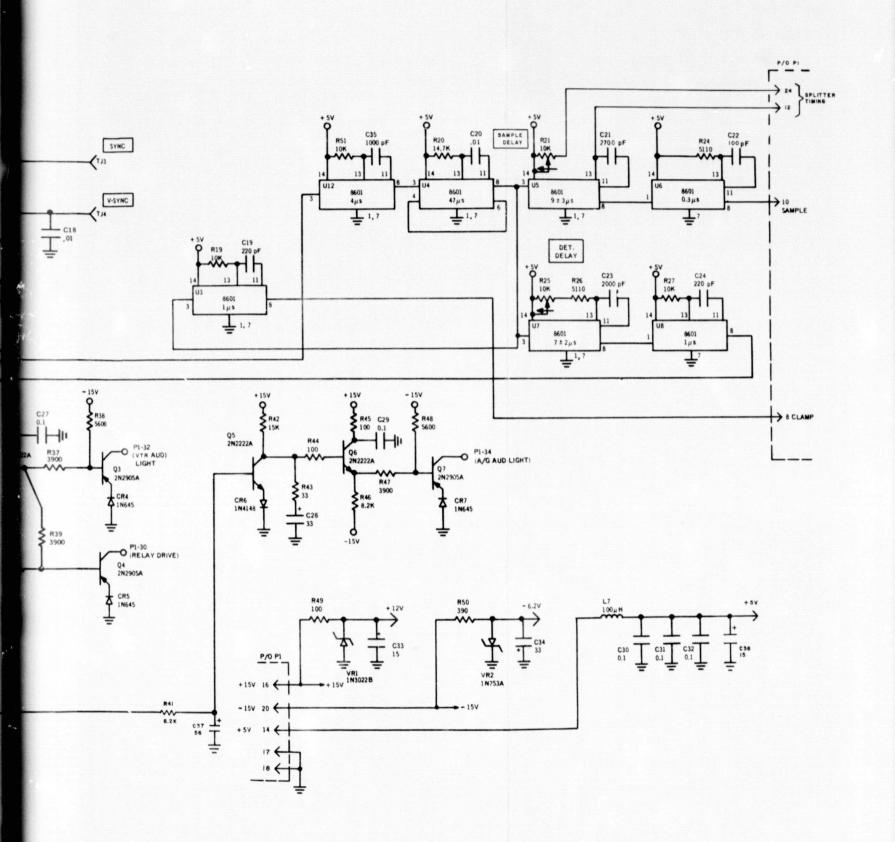
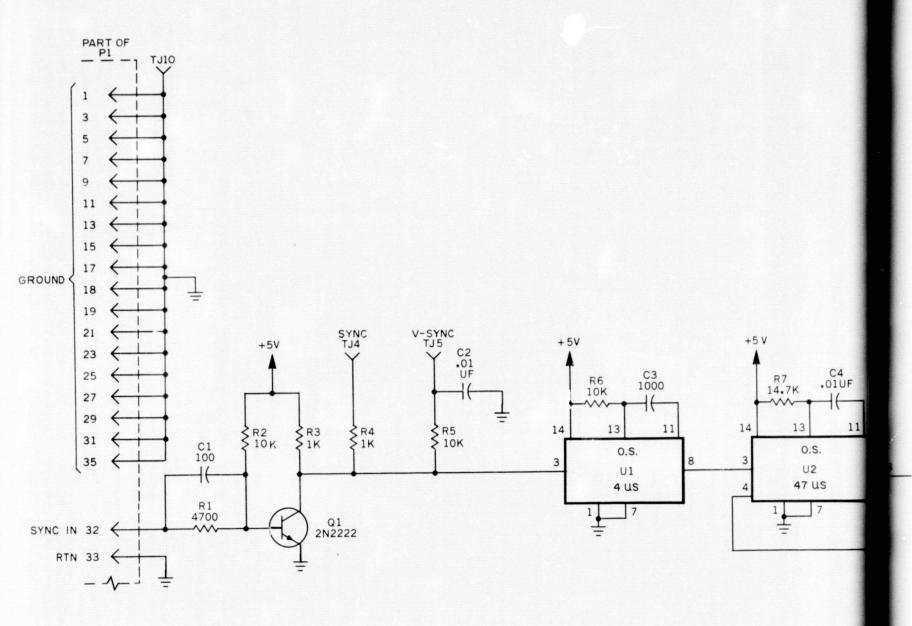


Figure 6-4. Splitter Timing Schematic (A3)

6-9/6-10



NOTES:

- 1. UNLESS OTHERWISE SPECIFIED
 ALL RESISTANCE VALUES ARE IN OHMS
 ALL CAPACITANCE VALUES ARE IN PICOFARADS
 ALL INDUCTANCE VALUES ARE IN MICROHENRYS
- 2. INTEGRATED CIRCUITS ARE U1 THRU U6 MC8601L

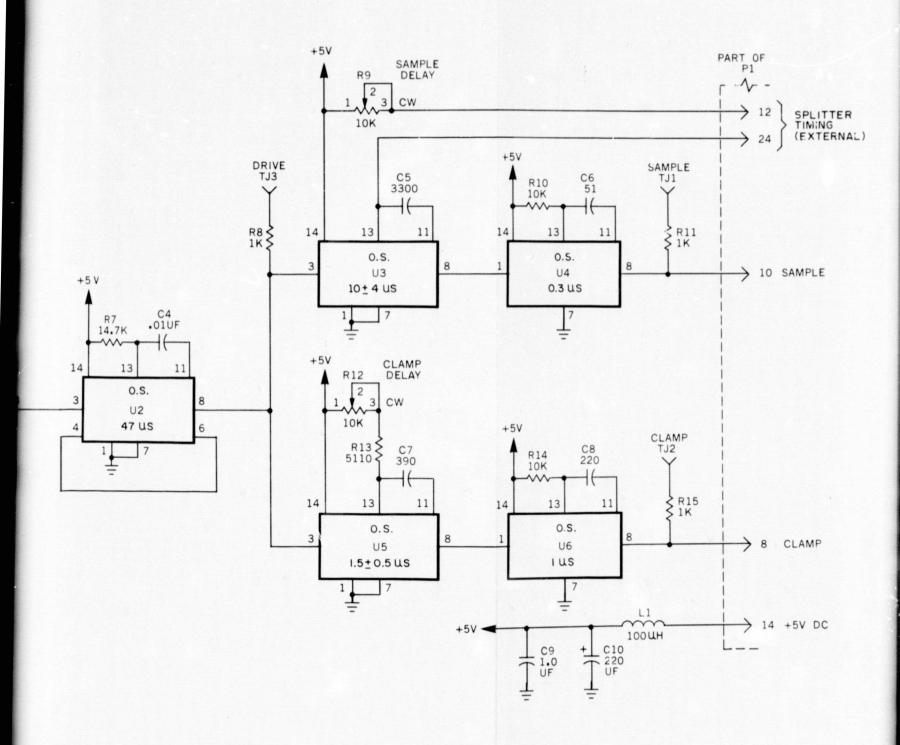


Figure 6-5. External Sync Schematic (A4)

FOLDOUT FRAME 6-11/6-12 2 RIGINAL PAGE IS POOR QUALITY

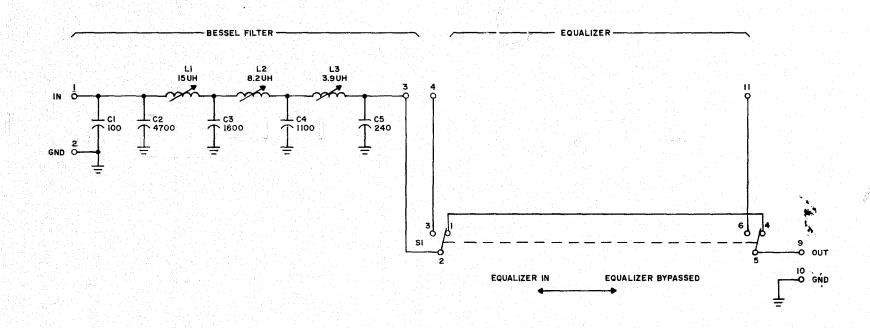
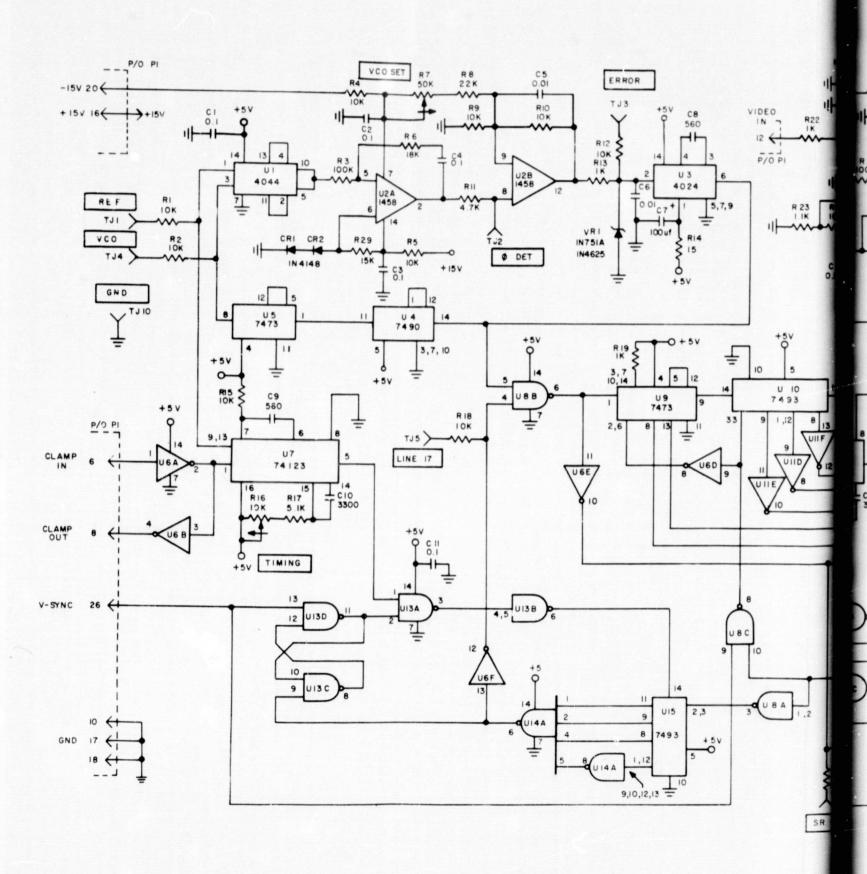
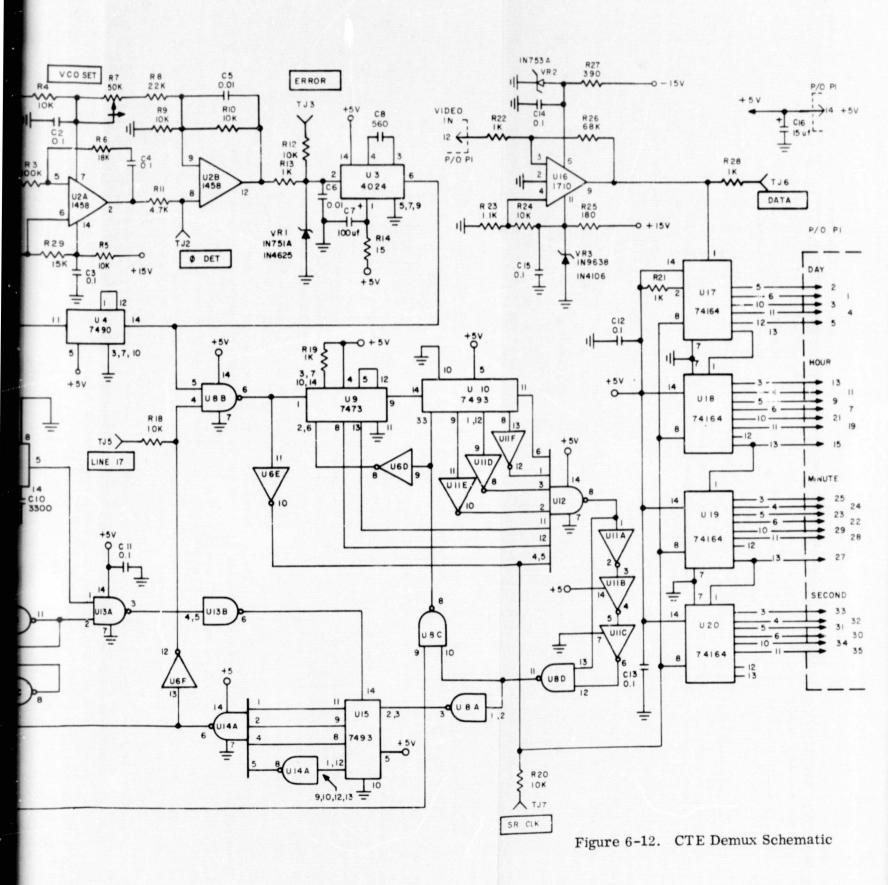


Figure 6-11. Bessel Filter, Equalizer Schmatic (A10)





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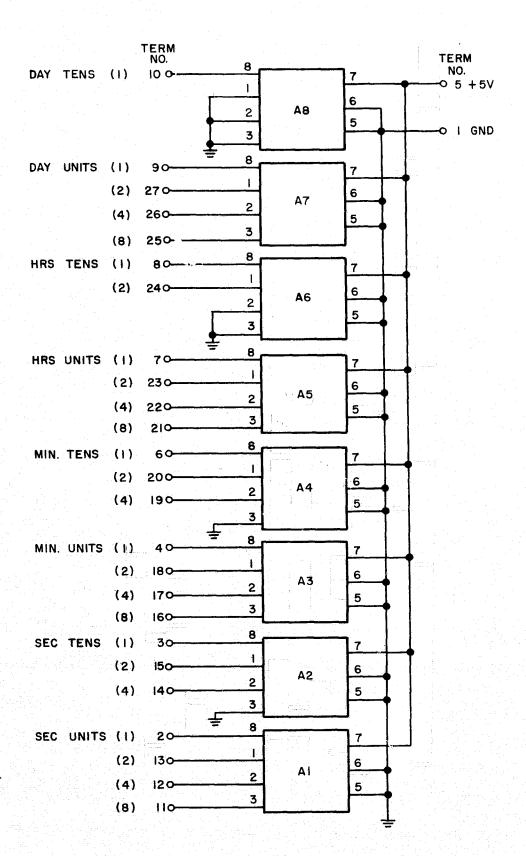


Figure 6-13. CTE Display Schematic (A12)

RCA 2403 XPO-3 (7-73)

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	C — Yards L — Pair D — Ounces M — Set		Gocument	K—Govt or cu				
	E—Pints N—Kit		O - For ref only	furnished				
	F—Quarts P—Roll G—Gallons R—Box, Case	8. O. 1	///- Not used	installed				

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		,	0205	46				1	.1			8372644.501	AUDIO INPUT	
		P	0207	A7	3.4			1	1			8372846 501	VIDED INPUT	
		P	0208	48				1	1			83728485501	INTERLEAVER SUTPUT	
		P	0209	Δ9				1	1			8372850m501	AUDIO POWER AMPL	
		£	0210	ALO		1	1	1	i			86737574501	BESSEL FILTER/EQUALIZER	
		E	0211	A11		1	1	1				83756822501	CTE DEMMUX	
		E	0212	412		1	1	1	•			86763416501	BD ASSY DISPLAY GEE:	
HILOCÚS	2/2	1	0213	Cl		1	1	1	1		01349	CE13C911D	CAPACITOR	3
HIL-C.S	2/2	1	0214	C2		1	1	1	1		81349 ·	CE13C9110	CAPACITOR	
		•	0215	419		1						8376197#503	CTE DUTPUT BUFFER!	
		P	0216	VIII		3						8376197-501	CTE CUTPUT BUFFER	
		P	0217	A15		3						8376197-501	CTE OUTPUT BUFFER	
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		1	0305	CR5				1	1		80131	1N945		DIODE		
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M&L-C-39024/10	1	0419	J3		1	1	1	1		96906	MS16108#3A	JACK	
41L-C-39024/10	1	0418	J4		1	1	1		i Li	96906	H516108#8A	JACK.	
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7	41L-C-39024/10	1	0502	J7		1	1	1		2.	96906	M516108#8A	JACK	
	MIL-C-39024/10	1	0503	18				1		2	86306	MS1610848A	JACK	
	41L-C-39024/10	1	0504	19				1		1	96906	MS\$6108.8A	JACK	
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•	MIL=C=39024/10	1	0506	J11				,		2	95905	M516108,84	JACK	
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3	411-6-39024/10		0514	J19						1	96905	MS1610825A	JACK	
•	MIL-C-39024/10	1	0515	J20						1	96906	M516108-3A	JACK	
Ţ	411mcm39024/10	,	0515	J21						1	96906	M516108#5A	JACK	
3	41L=C=39024/10	•	0517	J22.						1	96906	M516108#34	JACK	
.	41L-C±39024/10	,	0518	J23						1	96906	MS16108-64	JACK	
7	MIL-C-39024/10		0519	J24.						1	96906	HS15108+2A	JACK	

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i teledi. Tilanggan mengan	1	0504	J28		1	1	1 1	74863	31=245	CONNECTOR
	I	0505	129		1				20153252	CONNECTOR (AMP)
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MIL=R=11/3	1	0703	R3				1	,		81349	RC20GF220K	RESISTOR	-
MIL-R-11/3	1	p709	R4				1	,		81349	RC20GF220K	RESISTOR	
MILERALI/3	1	0705	R5				1	,	L	81349	RC20GF2ZOK	RESISTOR	
41L-R-11/3	1	0705	Ro				1	,	ı	81349	RCZOGFZZOK	RESISTOR	
MIL-R-11/3	1	0707	R7				1	!	1	81349	RCGOGF220K	RESISTOR	
4[L=R=11/3	1	0708	RB				1	,		81349	RCZOGF330K	RESISTOR	
H16-R-94/5	1	0709	R9				1			81349	RV4NAYSD103A	RESISTOR	٠
MIL=R=94/5	1	0710	R10				1			81349	RV4NAYSD103A	RESISTOR	
MIL=R-94/5	1	0711	R11				1	1		81349	RV4NAYSD501A	RESISTOR	
MIL-R-94/5	1	0712	R12.				1	!	L .	81349	RV4NAYSD501A	RESISTOR	
MIL=R-10509/1	I	0713	R13				1	;	L	81349	RNOODSILLE	RESISTOR'	
MIL-R-94/5	1	0714	R14-				1		1	51349	RVANAYSDIDZA	RESISTOR	
MIL-R-11/8	1	0715	R15		1	1	1	1	ı	81349	RC07GF103K	RESISTOR	
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	1	0803	\$3		1	1	1	1	30300	MS35059422	SHITCH	
	1	0804	54		1	1	1	1	76854	3996412513	SHITCH, ROTARY	
	1	0805	TB1				1	Š	75382	599-2004-9	TERMINAL BOP 97LS:	
	1	0805	TB2				1	1	75382	599-2004-9	TERMINAL BD 97LS	
	1	0807	TB3				1	1	75382	599-2004-9	TERMINAL BD/ 97LS.	
	1	0508	T84				1	2.	75382	599-2004-9	TERMINAL BDA. PTLS.	
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		1	0904	XDS2				9	1		91929	2F203	LAMP HOUSING MOD
			0905	XDS3		1	1	1	1			746936-21	LAMPHJUDER
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		1	0911	XK2				1	. 1		70309	30055-2	SOCKET, RELAY
** ***		I	0913	XA13		1					91662	00-8219-72-722-001	RECEPTACIE
		I	0914	XA14		1					91662	00-8219-72-722-001	RECEPTACLE
ŀ		I	0915	XAIS	r es et e r	1		7.1		'	91562	00-8219-72-722-001	RECEPTACIE
						, * 1 , * 2 + -							
	동물길벌사범												
L	EC 1320 (6/69)									1			

: ... 6

OF POOR OUALITY REA CAMDEN PLANT REV LTR H CODE IDENT SHEET STATUS PL 8573739 PARTS LIST SHEET/ 49671 LINE SPECIFICATION DWG ITEM OR PER DASH NO. QTY REQD CODE PART OR NOMENCLATURE OR FIND NO. IDENT IDENTIFYING NO. DESCRIPTION 505 504 503 502 501 P 8672818 SCHEM DIAG AUDIO SPLITTER 1001 X 8552893 W CONN. LIST AUDID-SPLITTER 1002. 8376151 1003 AUTO TIME BASE CORRECTOR SCHI X. 8528422 WCL AUDID/CIE SPLITTER. .. 1004 1005 8673733 FRONT PANEL PT OF IT 9 ALTRO. 1 1007 8673743-1 REAR PANEL PINTE IT'S ALTRO. 867374621 CHASSIS PT OF IT 9 ALTRO 1008 26534 CCE6.75-19-3-1-402-8-2.5 CTN1204H09, CHASSIS: CARD FILE 1009 4 9 8573799-2 PRINTED CARD FILE! (NEST' MOD) 1011 10 ZSP9-519-42 GUIDE 1 1013 11 26534 10 SLIDE. SET 12 26534 **CTN120** 1014 1015 13 26534 UC-P4 1/4-19 TOP COVER REAR SUPPORTHERT BRACKET, SET 1 26534 ZSF8-001-94 1016 14 HANDLES, SET 1017 15 26534 H0=9 867374941 GRILLE, SPEAKER 1018 15 1019 17 8153404 BRACKET 7 DEC 1320 [6/69]

SPECIFICATION	STATUS	SHEET/	PAR	TS I	_IST		EAT DRPORATIO		ORK, N	Y .	LTR	49671 PL 9673736	SHE
	DWG	NO.	ITEM OR FIND NO.	505	TY REQU		DASH N	501	3 C	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
							7,52						
Mariana Mariana Mariana	•	1102	1.9] <u>1</u>	1					740936.91	LENS, RED	
	1	1109	21		3	3	10		9	91662	60 <u>-</u> 5006#3414	POLARIZING INSERT	
	1	1111	23				3	3	4	71929	2B3.	BARRIER-MICEG: SHITCH	
	1	1113	25					2 5	2 6	91929 95906	2A38 MS\$1528#1D2B	DISPLAY SCREEN	
	1	1114	26		•			1	1	30300 30300	MS91528+2F2B MS91528+1K1B	KNOB	
	1	1116	26 29		AR	AR.	AR	ARI	1	49956	KL701G 999129409	LOCKS KNOB:	
	1	1115	30		AR	AR:	AR:	AR AR			999129#9 999129#E	WIRE, ELECTRICAL WIRE, ELECTRICAL	

SPECIFICATION	STATUS	SHEET/	PAR	TS L	IST		E T	I NEW YOR	K. N.	ν.	CAMDEN PLANT REV	49671 PL 8673736	S
	DWG	NO.	ITEM OR FIND NO.	Q 505	TY REQU	503	DASH N		U M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
						1							
		1202	33	100			AR	AR			999129=3	WIRE, ELECTRICAL	
		1203	34				AR.	AR			99912967	WIRE, ELECTRICAL	
	1	1204	35				AR	AR			999130-99	WIRE, ELECTRICAL	
	1	1205	36				AR	AR			99912749	WIRE, ELECTRICAL	
	1	1206	37				ARI	AR			999127=99	HIRE, ELECTRICAL	
41L-C-17/68	1	1207	38		AR	AŖ	AR:	AR		81349	RG1874/U	COAX CABLE	
	1	1208	39				AR	AR		16428	83718	WIREHZA-BELDEN	
	1	1209	40				AR	AR			999128=90	HIRE, ELECTRICAL	
	1	1210	41				AR-	AR			999128=0	WIRE, ELECTRICAL	
	1	1211	42				AR	AR			999128-99	WIRE, ELECTRICAL	
	1	1515	43		AR	AR		16		59730	TC105A	HOUNTING, PLATEI	
	1	1213	44		AR	AŖ.	AR	AR		59730	TC110	SOLVENT	
	1	1214	45				16			06090	0131-08	THERMOFIT SOLDER DENICE	
	1	1215	46				30	₽d		04.004	8982998613	TERHINAL SOLDERLESS:	
1\$25281	1	1216	47		1	3	2	2		96906	M525281R10	CLAMPA. CABLE	
4\$25281		1217	48				1			96905 96906	MS25261R8	CLAMPS LOOP	
4\$25281	1	1215	49				1	1			MS25281R3	SERRES EDUE	

NO.	SPECIFICATION	STATUS	SHEET/	PAR	TS L	IST		B/II RPORATION		RK, N	Υ.	LTR	49671 PL (\$73736)
1 1301 31		9MG	NO.							! 1		1	I control of the cont
1 1304 54 AR AR 2 2 7 96906 M520341±45 Nuts MEXAGON NUTS 1305 58 AR AR 2 2 96906 M520341±55 Nuts MEXAGON NUTS MUTS MEXAGON NUTS MEXAGON NUTS MEXAGON NUTS MUTS MEXAGON NUTS MEXAGON NUTS MEXAGON NUTS MEXAGON NAS1646 I 1310 60 AR AR 2 2 96906 M520341±10S NUTS MEXAGON SCREH WAS1640 I 1311 61 AR AR 14 14 90205 NAS1640±2 WASHER, LOCK WAS1640 I 1312 62 AR AR 10 10 90205 NAS1640±4 WASHER, LOCK WAS1640 I 1313 63 AR AR 12 12 90205 NAS1640±6 WASHER, LOCK WAS1640 I 1313 63 AR AR 12 12 90205 NAS1640±6 WASHER, LOCK WAS1640 I 1313 63 AR AR 2 2 90205 NAS1640±6 WASHER, LOCK WAS1640 I 1314 64 AR AR 2 2 90205 NAS1640±6 WASHER, LOCK WAS1640 I 1314 64 AR AR 2 2 90205 NAS1640±6 WASHER, LOCK WASHER, LOCK WAS1640 I 1314 64 AR AR 2 2 90205 NAS1640±10 WASHER, LOCK WASHER WASH	NAS49	1		1		lı.	-,	4	4			NAS43DD0-82 NAS43DD1-48	SPACER: SPACERI
1 1306 56 AR AR 2 1 76906 MS2034165S NUT, MEXAGON 1 1308 58 AR AR 2 1 76906 MS20341610S NUT, MEXAGON 1309 59 AR AR 2 2 80205 NAR164950466 SCREH VAS1040 1 1311 61 AR AR 14 14 80205 NAR164064 MASHER, LOCK VAS1040 1 1312 62 AR AR 10 10 80205 NAR164066 MASHER, LOCK VAS1040 1 1313 63 AR AR 12 12 80205 NAR164068 MASHER, LOCK VAS1040 1 1313 63 AR AR 2 2 80205 NAR164068 MASHER, LOCK VAS1040 1 1314 64 AR AR 2 2 80205 NAR164068 MASHER, LOCK		1	1304	54			•	1 2 12	1 2 12		96906	57935-701	NUTS
1309 59		:					1	6	8	1	76906		NUT» HEXAGON
VAS1040 I 1311 61 AR AR 14 14 80205 NAS1640-4 WASHER, LUCK VAS1640 I 1313 62 AR AR 10 10 80205 NAS1640-6 WASHER, LUCK VAS1640 I 1314 64 AR AR 2 80205 NAS1640-10 WASHER, LUCK NAS1640 I 1314 64 AR AR 2 80205 NAS1640-10 WASHER, LUCK		1	1309	59		AR	AR	2 2	2 2		50205	NA\$1635-04-6	SCREW
VAS1640 I 1313 63 AR AR 12 12 80205 NAS1640AB MASHER LOCK NAS1640 I 1314 64 AR AR 2 2 80205 NAS1640AB MASHER LOCK	A¥21940		1311	61		AR	AR				80205	NAS1640-4	WASHER, LOCK
	4A51640	1	1313	63		AR	AŖ				80205	NA\$1640+8	WASHERY LOCK
		I		66		AR	AŖ	2	2			892440156	WASHER

OF POOR QUALITY

Ľ.	SPECIFICATION	STATUS	SHEET/	PART	S LIST	RCA CORPORATION	N, NEW YORK, N	<u> </u>	LTR	49671 PL 8673734	SHEET
•		DWG	NO.	ITEM OR FIND NO.	QTY REQU 505 504	PER DASH N		CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	S Y M
€		1	1401	70	AR	AR Z	2 2	80205	NA\$1635£02_#	SCREW	
Ŧ		1	1402	71 72	AP.	AR 8	8	80205 80205	NAS1635-04-10	SCREW SCREW	
•		1	1404	73	AR	AR 4		60205	NAS1635+05+20	SCREW	
4	4\$24693	1		74 75	AR AR	AR 12	2 2	96906	NAS1635±08±6 MS24693C52	SCREW	
! >					Tr desired						
)											
	DEC 1320 (6/69)										

SPECIFICATION	STATUS	LINE	PA	۱R	TS	LIS)		G/I	N, NEW YO	RK, N	Y .	CAMDEN PLANT REV LTR D	CODE IDENT 49671 PL **72*38 St.
3164	DWG	NO.	ITEM FIND		505	OTY F		PER I	DASH N	501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
	P	0701	î.							x			8372870	SCHEM DIAG, SPLITTER DUTPUT
	P	0702	2							x			8372839	MA PATT-PW, SPLITTER OUTPUT
	I	0704	•					in the second		x			8030018	WORKMANSHIP SPEC, BASIC
	P	0707	7							10).			8679774-1	HANDLE-BOARD
								a.e.						
	1	0714	14							AR			8533343#8	CEMENT
	ĭ	0715	15							AR			2010105-22	COPPER WIRE, ROUND, TINNED
	1	0716	16							AR			20109094812 2010858-320	INSULATING TUBING
	I	0717 0718	17 18							AR			2010573-1	PLUX, SOLDERING, ALCHL-ROSIN

PAR	Ts list			rcл		RCA CORPORATION	NEW YORK, NY REVIS DAT		8372840		-	RE LT
IST T	TLE: BOARD ASSEMBLY VIDEO/AUDIO INPUT			3734-501 XT ASSY	SKYLAB-GSE USED ON	PREPARED BY CHECKED BY	DATE RI	CONTRAC	1DENT NO. 9671 T NO. NAS 8-279	SHE OF	ET 1 9 SH	IEETS
			INE	FIRST APE		DESIGN ACTIVITY API	PD DATE		NAS 0 27.			
				1,1101 741	REVISIONS	<u></u>						
LTR	DESCRIPTI	ON	DA	TE APPRO	VED LTR		DESCRIPTION			DATE	APPRO	VED
Α	REVISED											
В	REVISED											
⊂│	REVISED									1.		
D	REVISED											
E	REVISED											
										.		
1										- 1		
	요즘 나는 하는 하는데 보고 있는데 하다는데											
			IN	TERPRET SYME	OLS USED AS FOLL	ows:						
		UNITS	OF MEASURE (UM)	QUANTITIES	3	SYMBOL						
		A — Inches B — Feet C — Yards D — Ounces E — Pints G — Gallons	H — Barrels T — Each J — Pounds L — Pair M — Set N — Kit P — Roll R — Box, Case	X — Applicab documer O — For ref o	t furnished		. See specification or rol drawing.					

SPECIFICATION	STATUS	SHEET/	PAR	TS L	IST		E/I	N, NEW YORK I	ı Y	CAMDEN PLANT REV	CODE IDENT PL 8372840	SHEE
	امًا	NO	FIND NO.	305	504	503	502	501 M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
111-6-11015/18	1	0201	Cl					1	81349	CK058X102K	CAPACITOR	
111-6-5/18		0202	c2					1	81349	CM05ED510J03	CAPACITOR	.
116-6-11015/19	1	0203	C3						81349	CK06BX103K	CAPACITOR	.
IL=C-11015/19		0204	C4						81349	CK06BX103K	CAPACITOR	
114-C-27287/1		0205	C5						81349	CTM109VAJ	CAPACITOR	
IL_C_11015/19	1	0206	C6					1	81349	CK06BX103K	CAPACITOR	. [
IL=C-11015/19	•	0207	C7					1	81349	CK06BX103K	CAPACITOR	1
IL=C=5/18	1	0208	ce						81349	CH06sD202J03	CAPACITOR	
IL=C=11015/19	1	0209	C9					1	81349	CK06BX103K	CAPACITOR	ļ
	I	0210	£10						81349	CKO68X103K	CAPACITOR	
	I	0211	¢11						72982	8131-050-651-105M	CAPACITOR	: {
11L=C-5/18	I	0212	C12						81349	CH06FD202J03	CAPACITOR	
	•	02.2	""]	0030			}
IL=C=5/18	1	0214	C13					1	81349	CM05FD301J03	CAPACITOR	
11_0_5/18	1	0215	C14						81349	CM06F0821J03	CAPACITOR	
1L=C=5/1		0216	C15					1	a1349	CH06FD6g1J03	CAPACITOR	
IL-C-11015/19	,	0217	C16	1				1	81349	CK068X103K	CAPACITOR	
[L=C=11015/19	1	0218	C17					1	81349	CK06BX103K	CAPACITOR	

IL=C=5/18 I IL=C=5/18 I IL=C=11015/19 I IL=C=5/18 I IL=C=11015/19 I IL=C=11015/19 I	DMC	NO.	ITEM (TY REQU			NEW YOR	K. N	Υ	LTR	49671 PL 8372840	
IL=C=5/18 I IL=C=11015/19 I IL=C=5/18 I IL=C=11015/19 I IL=C=11015/19 I	1	0301			505	504	503	SOZ	501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
IL=C=11015/19 I IL=C=5/18 I IL=C=11015/19 I IL=C=11015/19 I	ĺ		C18						1		81349	CM05E0510J03	CAPACITOR	
IL=C=5/18 I IL=C=5/18 I IL=C=11015/19 I IL=C=11015/19 I		0302	C19						1		81349	CM05FD151J03	CAPACITOR	
IL=C=1/18 I IL=C=11015/19 I IL=C=11015/19 I	- 1	0303	C2 0		1.4				1		81349	CK06BX103K	CAPACITUR	
IL=C=11015/19 I	1	0304	C21						1		81349	CM05ED510J03	CAPACITOR	
[L=C=11015/19]	1	0305	C22						1	į	81349	CM05FD151J03	CAPACITOR	
	1	0306	C23	-					1		81349	CK06BX103K	CAPACITOR	
	- }													
	1	0309	C24						1		81349	CKO6BX104K	CAPACITOR	
L=C-11015/19 I	1	0309	C25						1	1	81349	CK06BX104K	CAPACITOR	
L-C-26655 I	1	0310	C26						1	•	81349	CS138E156K	CAPACITOR	
	- 1	0311	C27						1	}	81349	CS13BE156K	CAPACITOR	
L_C_26655 I	1	0315	C 28						1		81349	C5138C336K	CAPACITOR	
												104148	DIODE	
		0315	CR1						1		81349	1N4148	DIODE	
	•	0316	CR2								81349	\$17 7 \$ \$ \$	VALUE	
	,	0318	1.1						,		96906	MS90537=37	eoil	
		0319	P1								91662	00-7022-035-000-001	CONNECTOR	

SPECIFICATION	STATUS	SHEET/	PAR1	rs I	LIST		B/I	N. NEW YO	RK, N	Υ.	CAMDEN PLANT REV LTR E	49671 PL 8372840	SHEE 04
	DWG	NO.	ITEM OR	Q	TY REQD	PER	DASH N	0.	υ	CODE	PART OR	NOMENCLATURE OR	9
	18		FIND NO.	505	504	503	502	501	М	IDENT	IDENTIFYING NO.	DESCRIPTION	^^
	1	0401	81					1			2N2219A	TRANSISTOR	
	1	0402	92					1			2N4859	TRANSISTOR	
	1	0403	03					1			2N2907A	TRANSISTOR	
	1	0404	24					1			2N2227A	TRANSISTOR	
	1	0405	Q5					1			2N4859	TRANSISTOR	
	1	0406	96					1			2N2369A	TRANSISTOR	
	1	0407	Q7					1			2N2907A	TRANSISTOR	
	1	0408	98					1			2N2369A	TRANSISTOR	
	1	0409	99					1			2N2907A	TRANSISTOR	
			Day 1										
MIL-R-11/8	1	0412	R1					1		81349	RCO7GF102K	RESISTOR	
MIL_R_22684/2	1-	0413	R2					1	1.7	81349	RL205301J	RESISTOR	
	1.	0414	R3					1		80294	3009P1=101	RESISTOR	
MIL=R=55182/3	1	0415	R4					1		81349	RN60D1101F	RESISTOR	
MIL=R=22684/1	1	0416	R5					1		81349	RL075201J	RESISTOR	
MIL=R=10509/1	1	0417	R6	19.1 11.				1		81349	RN60D1002F	RESISTOR	-
MIL-R-11/3	1	0418	R7					1		81349	RC20GF561K	RESISTOR	
			100										- }-

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SPECIFICATION	STATUS	SnceT/ LINE	PAR	ΓS I	_IST	1	GA.		RK, N	i. y .	CAMDEN PLANT	REV LTR £	49671	PL 8372840	SHE 05
	DWG	NO.	ITEM OR FIND NO.		TY REQU	PER	DASH N		U	CODE	PART OR		N	OMENCLATURE OR	
	á		FIND NO.	505	504	503	502	501	M	IDENT	IDENTIFYING I	VO.		DESCRIPTION	
MIL-R-11/3	1	0501	R8			-		1		81349	RC07GF120K		RESISTOR		
MIL=R=11/3	1	0502	R9					1		81349	RCO7GF120K		RESISTOR		- 1
41L=R=22684/2	1	0503	RIO					1		81349	RL205301J		RESISTOR		1
41L_R_11/8	1	0504	R11					1		81349	RC07GF103K		RESISTOR		
11L=R=11/8	1	0505	R12					1		81349	RCO7GF101K		RESISTOR		
41L-R-11/8	I.	0506	R13					1		81349	RC07G#470K		RESISTOR		
IIL=Ruli/3	I	0507	R14					1		81349	RCO7GF120K		RESISTOR		
MIL=R-11/8	1	0509	R15					1		81349	RCO7GF222K		RESISTOR		
41L=R-11/8	1	0510	R16					1		81349	RCO7GF470K		RESISTOR		
41L=R+11/8	1	0511	R17					1		81349	RCO7GF103K		RESISTOR		
MIL=R=11/3	1	0512	R18					1		81349	RC07G#120K		RESISTOR		
MIL=R-11/8	1	0514	R19					1		81349	RCO7GF103K		RESISTOR		
11L=R=11/8	1	0515	R20					1		81349	RCO7GF564K		RESISTOR		
IL-R-11/3	ı	0516	R21					1		81349	RCO7GF120K		RESISTOR		}
IL=R=11/3	1	0517	R22					1		81349	RCO7GF120K		RESISTOR		
	ı	0518	R23	N .				1	.	80294	300991=502		RESISTOR		
						100 miles			. 1]

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SPECIFICATION	STATUS	SHEET/	PAR'	TS	LIST	1	C/	N. NEW YO	RK, N	l Y .	LTR	49671 PL #372840	SHEE
	DWG	NO.	ITEM OR FIND NO.	505	QTY REQU	PER 503	DASH 1	10. 501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	SYN
MIL=R=10509/1	1	0601	R24					1		81349	RN60D5112F	RESISTOR	
MIL=R=10509/1	1	0602	R25					1		81349	RN6005112F	RESISTOR	
HIL=R=11/8	1	0603	R26					1		81349	RC07G#362K	RESISTOR	
MIL_R_10509/1	1	0504	R27					1		81349	RN60D5112F	RESISTOR	
MIL=R-10509/1	1	0605	R28					1		81349	RN60D5112F	RESISTOR	
MIL=R=11/3	I	0606	R29					1		81349	RC07GF120K	RESISTOR	
MIL=R=11/3	1	0608	R30					1		81349	RC07GF12OK	RESISTOR	
MIL=R=11/8	1	0609	R31					1		81349	RCO7Gp103K	RESISTOR	
MIL=R=11/8	1	0610	R32					1		81349	RCOTGF68aK	RESISTOR	-
MIL=R=11/8	1	0611	R33					1		81349	RCOTGF102K	RESISTOR	
MIL=R=11/8	1	0612	R34					1		81349	RCO7GF472K	RESISTOR	
MIL=R=11/8	1 4	0614	R35					1		81349	RC07GF223K	RESISTOR	
41L-R-11/8	1	0615	R36					1		81349	RCO7GF152K	RESISTOR	
41L=R=11/3	1	0616	R37					1		81349	RCO7GF12OK	RESISTOR	
41L0R#11/8	I	0617	R38					,	-	81349	RCO7GF471K	RESISTOR	
MIL=R=11/8	1	0618	R39					,		81349	RC07GF103K	RESISTOR	
MIL-R-11/8	1	0619	R40							81349	RCO7GF683K	RESISTOR	

. Paragangangan pangangan pangangangangan pangangan pangan pangan pangangan pangangan pangangan pangangan pangan

SPECIFICATION	STATUS	SHEET/	PAR1	ΓS ι	IST		E/I	L NEW YOR	K. N Y	CAMDEN PLANT	REV LTR E		SHEI 07
	DWG	NO.	ITEM OR	Ċ.	TY REQU	PER !	DASH N	0.	U CODE	PART OR		NOMENCLATURE OR	
	å		FIND NO.	505	504	503	302	501	M IDEN	IDENTIFYING I	NO.	DESCRIPTION	_
MIL=R=11/8	I	0701	R41					1	81349	HCO7GF102K		RESISTOR	
(IL=R=11/8	1	0702	R42					1	81349	REOTG#472K		RESISTOR	
MIL-R-11/8	1	0703	R43					1	81349	RCO7GF223K		RESISTOR	
11L=R=11/8	1	0704	R44	7 . 1 :				1	81349	RCO7GF152K		RESISTOR	
11L=R=11/3	1	0705	R45					1	81349	RCO7GF120K		RESISTOR	
IL-R-11/8	1	0706	R46					1	81349	RCO7GF471K		RESISTOR	ļ
IL-R-11/3	1	0707	R47					1	81349	RCZOGPOBOK		RESISTOR	
11L=R=11/3	I	0708	R48					1	81349	RC20GF680K		RESISTOR	
IL-R-11/6	1	0709	R49					1	81349	RC32GF271K		RESISTOR	
	1	0710	R50					1	81349	RCOTGF103K		RESISTOR	
IL=R-11/8	1	0711	R51					1	81349	RCO7GF103K		RESISTOR	
IL=R=11/8	1	0712	R52	4 1 A				1	81349	RCO7GF102K		RESISTOR	
IL-R-11/8	I	0713	R53					1	81349	RC07GF102K		RESISTOR	
11L=R-11/6	1	0714	R54					1	81349	RCOTGFZZOK		RESISTOR	
	1	0716	71					1	00348	VM14M		TRANSFORMER	
	1	0717	731					1	00779	3-582340-1		JACK, TEST-BEN	
	1	0718	TJ2					3	00779	3-552340-2		JACK, TEST-RED	
	1	0719	713					1	00779	3-582340=3		JACK, TEST-ORG	

SPECIFICATION	STATUS	SHEET/ LINE	PART	S	LIST		C/I		RK. N	. Y .	LTR	49671 PL =372840 SHE
	DWG	NO.	ITEM OR FIND NO.	5 05	TY REQD	PER 503	DASH N	0. 501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
	1	0001	734					1		00779	3-582340-4	JACK, TESTSYEL
	1	0803	7J10					1		00779	3-582340-0	JACKA TESTÄBLK
			ปเ					1		04713	MC1712CL	INTEGRATED CIRCUIT
		0808	U2 U3					1		04713	MC174ICL MC1458CL	INTEGRATED CIRCUIT
	1	0870	VR1					1			1N30228	DIODE, ZENER
	1	0811	VR2 VR3					1			1N30228	DIODE, ZENER DIODE, ZENER
								•				DIOSES ZENER

SPECIFICATION	STATUS	SHEET/	PA	\R	TS L	_IST		G/I	N. NEW YO	RK N	Y	CAMDEN PLANT REV	49671 PL =372640 SH
	DWG	NO.	ITEM		1 1	TY REQU				U	CODE	PART OR	NOMENCLATURE OR
	Δ		11110	140.	505	504	503	502	501	M	IDENT	IDENTIFYING NO.	DESCRIPTION
	Р	0901	1						x			8372871	SCHEM DIAG, VIDED/AUDIO INPUT
	P	0902	2						X			8372841	MA PATT-PW, VIDED/AUDIO INPUT
	1,10												
	I	0904	•						X			8030018	WORKMANSHIP SPEC, BASIC
	Р	0907	7						1			8673774-2	HANDLE-BOARD
	I	0909	9						1			8505806-4	MOUNTING PAD TO-5 PACKAGE
	ī	0910	10						8			8524995-1	SPACER, TRANSISTOR
		et in S						. "					
	1	0914	14						AR			8537343#8	CEMENT
	Ī	0915	15						AR			2010105-22	COPPER WIRE, ROUND, TINNED
	1	0916	16						AR			2010909-812	INSULATING TUBING
	1	0917	17						AR			2010858-320	SOLDER, TIN-LEAD ALLOY
	1	0918	18						AR			2010573-1	PLUX, SOLDERING, ALCHL-ROSIN

	TS LIST		СЛ	1. 		EN PLANT	VISION DATE	PL 8372842		RELT
IST T	ITLE: BOARD ASSEMBLY				PREPARED BY	DATE	REL	CODE IDENT NO. 49671	SH OF	IO SHEETS
	SPLITTER TIMING	86737	34-501 SK	YLAB-GSE	CHECKED BY	DATE	- 1	CONTRACT NO.	(0	
	생활되는 회에 심는 사람은 현대로 가지 않는	NEXT	T ASSY	USED ON	DESIGN ACTIVITY API	D DATE	1	NAS 8-2	/968	
<u> </u>			FIRST APPLIC				<u> l</u>			
LTR	DESCRIPTION	DATE		VISIONS		DESCRIPTION			DATE	APPROVED
A	REVISED	DATE	APPROVED	LIK		DESCRIPTION			- CONTE	Ar PROVED
	LCV19ED			_						
В	REVISED									
С	REVISED									
D	REVISED									
E	REVISED									
F	REVISED									
G	REVISED									
		INTE	RPRET SYMBOLS	USED AS FOLI			J	 		<u> </u>
	UNITS OF MEASURE	(UM)	QUANTITIES		SYMBOL		_			
	A—Inches H—Barrels B—Feet J—Pounds C—Yards L—Pair D—Ounces M—Set E—Pints N—Kit F—Quarts P—Roll G—Gallons R—Box, CS		X — Applicable document O — For ref only	U — Govt or cu furnished K — Govt or cu furnished installed	ustomer					

SPECIFICATION	STATUS	SHEET/	PA	۱R	TS I	_IST		G/I		RK. N	¥	CAMDEN PLANT REV LTR G	CODE IDENT PL #372842	SHE
	DWG	NO.	ITEM FIND		905	TY REQU	503	DASH N	0. 501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	3
MIL=C+5/18		0201	C1						,		81349	CM06FD152J03	CAPACITOR	
	ī	0202	62						11111			N/A	NOT USED	
		0203	C3						11111	l .		N/A	NOT USED	
	1	0204	64						11111	[:		N/A	NOT USED	
IL-C-5/18	1	0205	CS						11111	1	81349	CM05F0331J03	CAPACITUR	
	1	0206	C6		. 4.				11111			N/A	NOT USED	
										į .				
	i	0208	67				- 1 ju		11111			N/A	NOT USED	
	1	0209	C6						11111			N/A	NOT USED	
	1	0210	C9						11111			N/A	NOT USED	
	1	0211	C10						11111			N/A	NOT USED	
									İ					
IL-C-11015/18	1	0213	611						1		81349	CK05BX102K	CAPACITOR	
IL=C=11015/19	1	0214	612						1		81349	CK068X103K	CAPACITOR	
IL-C-11015/19	1	0215	C13						1		81349	CK068X103K	CAPACITOR	
IL-C-5/18	1	0216	C14						1		81349	CH05ED510J03	CAPACITOR	
IL-C-11015/19	1	0217	C15						1		81349	CK068X104K	CAPACITOR	
IL=C-11015/19	I	0218	C16						1		51349	CKOOBXIOSK	CAPACITOR	
IL=C=11015/19	1	0219	617						1		81349	CKO68X103K	CAPACITOR	1

SPECIFICATION	STATUS	SHEET/	PA	\R	rs I	LIST		C/I		RK. N	Υ.	LTR	49671 PL 8372842 SHEET
	DWG	NO.	ITEM FIND		505	TY REQD	PER 503	DASH N	0. 501	U M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR SYDESCRIPTION M
HIL-C-11015/19	1	0301	¢18						1		81349	CK06BX103K	CAPACITOR
MIL-C-5/18	1	0302	C19						1		81349	CM05FD221J03	CAPACITUR
MIL=C-27287/1	ı	0303	c2 0						1		81349	CTM103VAJ	CAPACITOR
H1L=C=5/18	I	0304	C21	.					1		81349	CM06FD272J03	CAPACITOR
MIL-C-5/18	1	0305	622						1		81349	CM05FD101J03	CAPACITOR
M1L=C=5/18	1	0306	C23						1		81349	CM06FD202J03	CAPACITOR
MIL=C=5/18	1	0307	C24						1		81349	CM05FD221J03	CAPACITOR
MIL=C=5/18	1	0308	C25						1		81349	CM06F0102J03	CAPACITOR
MIL=C=26655	1	0309	C26						1		81349	C513BF336K	CAPACITOR
MIL=C=11015/19	I	0310	C27						1		81349	CKO6BX104K	CAPACITOR
MIL=C=26655	1	0311	C28						1		81349	C513BF336K	CAPACITOR
MIL=C=11015/19	1	0312	629						1		81349	CK06BX104K	CAPACITOR
MIL-C-11015/19	1	0313	630						1		81349	CK068X104K	CAPACITOR
MIL-C-11015/19	1	0314	C31						1		81349	CKO68X104K	CAPACITOR
MIL=C=11015/19	1	0315	C32						1		81349	CKO6BX104K	CAPACITOR
MIL_G_26655	1	0316	C33						1		81349	C5138E156K	CAPACITOR
MIL-C-26655	1	0317	C34						1		81349	CS138C336K	CAPACITOR
MIL=C=11015/18	1	0318	C35						1		81349	CK058X102K	CAPACITOR
MIL=C-26655	1	0319	C36	.					1		81349	CS13BR566K	CAPACITUR

SPECIFICATION	STATUS	SHEET/	PART	rs L	IST	RCA CO	E/I	I NEW YO	RK. N	. Y	CAMDEN PLANT REV LTR	49671 PL 8372842	SHEE 04
	9MG	NO,	ITEM OR FIND NO.	905	TY REQU	9 PER 1	DASH N	0. 501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	1
M11-C-26655	1	0401	Ca7					1		81349	CS1388566K	CAPACITOR	
	1	0402	Call					1		56289	TE1129	CAPACITOR	1
	1	0403	CRI					1		81349	1N4148	DIODE	
	1	0404	CR2					1		81349	1N4148	DIODE	
	1	0405	CRS					1		81349	1N4148	DIDDE	
e din Marie, sele Selember 1981 din Selember 1981 din Se	1	0406	CR4					1			1N645	DIDDE	
	I,	0407	CRS		1			1			1N645	DIODE	
	1	0408	CR6					1		81349	1N4148	DIDDE	
	1	0409	CRT					1	-		1N645	DIODE	
	1	0410	Ľ1					11111			N/A	NOT USED	
	1	0411	ĽZ					11111			N/A	NOT USED	
	1	0412	L3					11111			N/A	NOT USED	
	1	0413	14					11111			N/A	NOT USED	
	1	0414	1.5					/////			N/A	NOT USED	
	1	0415	i6					11111			N/A	NOT USED	
	I	0416	L7					1		96906	MS90537-37	COIL	
	1	0418	P1					1		91662	00=702220352000-001	CONNECTOR	

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SPECIFICATION	STATUS	SHEET/	PAR	TS	LIST		C/I	N, NEW YO	RK. N	Y	CAMDEN PLANT REV LTR G	CODE IDENT PL =372842 Sh	HE 06
	DWG	NO.	ITEM OR		TY REQU	PER	DASH N	Ю.	υ	CODE	PART OR	NOMENCLATURE OR	
	ā		FIND NO.	505	504	503	502	501	М	IDENT	IDENTIFYING NO.	DESCRIPTION	+
MIL=R=10509/1	1	060%	R11					1		81349	RN60D1001F	RESISTOR	
MIL-R-10509/1	1	0502	R12					1		81349	RN60D2610F	RESISTOR	
MIL=R=10509/1	1	0603	R13					1		81349	RN60D5621F	RESISTOR	
MIL=R-11/3	1	0604	R14					1		81349	RCO7GF1ZOK	RESISTOR	
MIL=R=11/3	1	0605	R15					1		81349	RCOTGFLEOK	RESISTOR	
MIL-R-11/8	1	0606	R16					1		81349	RCO7GF683K	RESISTOR	
							•						-
MIL-R-11/8	1	0608	R17					1		81349	RCO7GF103K	RESISTOR	
MIL=R=11/8	1	0609	R18					1		81349	RCO7GF103K	RESISTOR	
MIL=R=10509/1	1	0610	R19					1		81349	RN60D1002F	RESISTOR	-
MIL-R-10509/1	1	0611	R20					1		81349	RN60D1472F	RESISTOR	
	1	0612	R21					1		80294	300991=103	RESISTOR	
											Maria de la Calenda de		
MIL=R=10509/1	1	0614	R22		j			11111		81349	RN60D5111F	RESISTUR	
	1	0615	R23					11111			N/A	NOT USED	
MIL=R=10509/1	1	0616	R24					1		81349	RN6005111F	RESISTOR	
뿔 돼 게 시간함	I	0517	R25					1		80294	3009P1=103	RESISTOR	
MIL=R=10509/1	1	0618	R26					1		81349	RN60D5111F	RESISTOR	
MIL=R=10509/1	1	0619	R27					1	,	81349	RN60DTOOZF	RESISTOR	

SPECIFICATION	STATUS	SHEET/	PAR1	rs l	_ISĭ		E/I		K. N	Y	CAMDEN PLANT REV LTR G	49671 PL 8372842	SHE
	DWG	NO.	ITEM OR FIND NO.	Q 5 05	TY REQD	PER 503	DASH N	***	M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
]L=R=11/8	1	0701	R28					1		81349	RCO7GF103K	RESISTOR	
IL-R-10509/1	1	0702	R29					1		81349	RN60D100ZF	RESISTOR	
-R=11/8	1	0703	R30					1		81349	RC07G#103K	RESISTOR	
LeRe11/8	1	0704	R31					1		81349	RCO7GF822K	MESISTOR	
IL-R-11/8	1	0705	R32					1		81349	RCO7GF153K	RESISTOR	
[L=R=11/8	1	0706	R33					1		81349	RCO7GF330K	RESISTOR	
<u>1-R-11/8</u>	1	0708	R34					1		81349	RCO7GF101K	RESISTOR	
LeRell/8	1	0709	R35					1		81349	RCO7GF101K	RESISTOR	
L=R=11/8	1	0710	R36					1		81349	RCO7GF022K	RESISTOR	
L-R-11/8	1	0711	R37					1		81349	RCO7GF392K	RESISTOR	
L-R-11/8	1	0712	R38					1		813/9	RC07gF562K	RESISTOR	
L-R-11/8	1	0714	R39					1		81349	RC07G#392K	RESISTOR	
L-R-11/8	ì	0715	R40					1		81349	RCO7GF562K	RESISTOR	
L=R=11/8	I	0716	R41					1	- 1	81349	RCC7G#822K	RESISTOR	
L-R-11/8	1	0717	R42					1		\$1349	RCO7GF153K	RESISTOR	
LaRull/8	1	0718	R43					1		81349	RCO7GF330K	RESISTOR	

SPECIFICATION	STATUS	SHEET/ LINE	PAR	TS	LIST		G/I		RK, N	Y	CAMDEN PLANT REV LTR G	CODE IDENT PL •372642 SH
	DWG	NO.	ITEM OR FIND NO.		TY REOD				U	CODE	PART OR	NOMENCLATURE OR
	10		11110 140,	505	504	503	502	501	M	IDENT	IDENTIFYING NO.	DESCRIPTION
MIL=R#11/8	1	0801	R44					1		81349	RCO7G#101K	RESISTOR
HIL-R-11/8	1	0802	R45					1		g1349	RC07GF101K	RESISTOR
MIL-R-11/8	1	0803	R46					. 1	salti ja	81349	RCOTGFBERS	RESISTOR
MIL=R=11/8	1	0804	R47					1		81349	RE07GF392K	RESISTOR
MIL=R=11/8	1	0805	R48					1		81349	RCOTGF562K	RESISTOR
4IL=R=11/3	1	0806	R49					1		81249	RC20GF101K	RESISTOR
IL-R-11/3	1	0807	R50					1		81349	RC20GF391K	RESISTOR
11L=R=11/8	1	0808	R51					1		81349	RCOTGF103K	RESISTOR
MIL-R-10509/1	1	0809	R52					1		81349	RN60D1501F	RESISTOR
	1	0811	TJ1					1		00779	3-582940-1	JACK, TESTEBRN
	1	0812	TJ2					1		00779	3-552340-2	JACK, TESTÉRED
	1	0813	TJ3					1		00779	3-882340-3	JACK, TESTEDRG
	1	0814	TJ4					1		00779	3-582340=4	JACK, TESTÉYEL
	1	0815	TJ 5					1		00779	3-582346-5	JACK, TESTAGRN
	1	0816	TJ6					1		00779	3-582340-6	JACK, TESTÉBLU
	I	0818	7 J10					1		00779	3-582340-0	JACK, TESTÉBLK

Accorded to the second to the

SPECIFICATION	STATUS	SHEET/	PAR	ГЅ	LIST		C/I		RK. N	I Y	CAMDEN PLANT REV LTR G	CODE IDENT PL 8372842 St	HEE O
	DWG	NO.	ITEM OR FIND NO.	5 05	TY REQD	PER 503	DASH N	0. 501	U M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	***
	1	0901	U1.							04713	HC1712CL	INTEGRATED CIRCUIT	Ī
	1	0902	U2					1		04713	HC1710GL	INTEGRATED CIRCUIT	-
	1	0903	U3					1		04713	MC86016	INTEGRATED CIRCUIT	
	1	0904	U4					1		04713	MC8601L	INTEGRATED CIRCUIT	
	1	0905	U5					1		04713	HC8601L	INTEGRATED CIRCUIT	
	1	0906	U6					1		04713	MC8601L	INTEGRATED CIRCUIT	Ì
	1	0907	บร					1		04713	HC86016	INTEGRATED CIRCUIT	
	1	0908	ua .					1		04713	MC860ÏL	INTEGRATED CIRCUIT	
	1	0909	U9					1		04713	MC7400L	INTEGRATED CIRCUIT	
	1	0910	Ulo					1		04713	MC8601L	INTEGRATED CIRCUIT	
	1	0911	U11					i		04713	MC7400L	INTEGRATED CIRCUIT	
	1	0912	U12					1		04713	MC860iL	INTEGRATED CIRCUIT	
	1	0913	VR1					1			1N30228	DIDDE, ZENER	
	1	0914	VR2					1			1N753A	DIODE, ZENER	
	1												
									L				

SPECIFICATION	STATUS	SHEET/	PART	rs ı	LIST		B/I	NEW YO	RK. N	Y	CAMDEN PLANT REV LTR G	CODE IDENT PL #372842 St	1E
	DWG	NO.	ITEM OR FIND NO.		TY REQU				U	CODE	PART OR	NOMENC'L ATURE OR	
	ā		, INC. 110.	505	504	503	302	501	М	IDENT	IDENTIFYING NO.	DESCRIPTION	+
	Þ	1001	1					x			6372672	SCHEM DIAG, SPLITTER TIMING	
	P	1002	2					×			8372843	MA PATT-PW; SPLITTER TIMING	١
													-
	1	1004	•					x			8030018	WURKMANSHIP SPEC, BASIC	
								}					
	P	1007	7					1			8673774-3	HANDLE-STARD	
													1
	1	1009	9					3			8505806-4	HOUNTING PAD TO-5 PACKAGE	-
	1	1010	10					4			8524995-1	SPACER, TRANSISTOR	
	1	1014	14					AR			8533343-8	CEMENT	
	1	1015	15					AR			2010105-22	COPPER WIRE, ROUND, TINNED	
	1	1016	16					AR			2010909#812	INSULATING TUBING	1
	1	1017	17					AR			2010858-320	SOLDER, TIN-LEAD ALLOY	
	1	1018	18					AR			2010573-1	FLUX, SOLDERING, ALCHLOROSIN	
													1

PAR	TS LIST		RC/		RCA CORPORATION ! NE	W YORK, NY R	EVISION DATE	PL 83730	15	REV LTF
LIST TI	TLE:				PREPARED BY	DATE	REL	code ident no. 49671	SHEET OF 6	1 SHEETS
	BOARD ASSEMBLY	후에를 계대를 받는다. 기급은 기급을 기급	8673734	SKYLAB G		DATE		CONTRACT NO.		. :
	EXTERNAL SYNC		NEXT ASSY FIRST	USED O	N DESIGN ACTIVITY APPE	DATE.		NAS 8-27	968	
				REVISION						
LTR	DESCR	IPTION	DATE A	PROVED LTR		DESCRIPTION			DATE A	PPROVED
Α	REVISED									
В	REVISED									
	[18] : 11일 : 11일 : 12일 : 12일 (1945) [18] : 12일 : 1	(1) 교육 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)								
				L_	<u> </u>				1	
				SYMBOLS USED AS	FOLLOWS:					
		UNITS OF MEASURE A—Inches H— Barrels B—Feet J—Pou ds C—Yards L—Pair D—Ounces M—Set E—Pints N—Kit F—Quarts P—Roll G—Gallons R—Box, Cas	T—Each X—Ap	oricable U — Gov cument furn ref only K — Gov	or customer source control ished and siled	See specification of drawing.				

SPECIFICATION	STATUS	SHEET/	PAF	₹	S L	IST		B/I		RK. N	Y	CAMDEN PLANT REV	49671 PL 6373015 St	O S
	DWG	NO.	ITEM OF		QT	Y REQD	PER 1	DASH N	0. 501	U M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
M[L=C=11015/18	1	0201	C1						1		81349	CK09BX101K	CAPACITOR	1
MIL-C-11015/19 MIL-C-5/1g		0203	ca ca						1		81349 a1349	CK068X103K	CAPACITOR	
HIL-C-27287/1	1	0204	64						1		61349	CTM109VAJ	CAPACITUR	1
M16-6-5/18	1	0205	C5						1		81349	CMG6ED392JO3	CAPACITOR	
MIL=C=5/18 MIL=C=5/18	1	0206	C 7						1		81349	CM05ED510J03	CAPACITOR	
M1L-C-5/18	1	0208	C8						1		81349	CMQ5ED221J03	CAPACITOR	
HIL-C-11015/19		0209	C9						1		81249	CKO6BX105K	CAPACITUR	1
M1Fece45/1	1	0210	C10								81349	CE11C221D	CAPACITOR	
	1	0213	LI						1		96906	H590537-37	COIL	
	1	0216	Pl						1		91662	00-7022-035-000-001	CONNECTOR	
	1	0219	01								04713	2N2222	TRANSISTOR	

SPECIFICATION	STATUS	SHEET/	PAR	TS L	IST		C/I		ORK_N	(Y .	CAMDEN PLANT REV	49671 PL #373015	HEE 3
	DWG	NO.	ITEM OR		TY REQU	PER	DASH N	10.	U	CODE	PART OR	NOMENCLATURE OR	SY
	18		FIND NO.	505	504	503	50%	501	M	IDENT	IDENTIFYING NO.	DESCRIPTION	1
MIL-R-11/8	1	0301	R1						1	81349	RCO7GF472K	RESISTOR	
IL-R-11/8	I	0302	RZ						2	81349	RCO7GF103K	RESISTOR	
[L=R=11/8	1	0303	R3					1	1	81349	RCO7GF102K	RESISTOR	
1L-R-11/8	1	0304	R4			HIVII Berlin		1	1	81349	RC07GF102K	RESISTOR	
1L-R-11/8	1	0305	R.S					1	1	81349	RC07GF103K	RESISTOR	
1L-R-10509/1	I	0306	Ró						1	81349	RN60D1002F	RESISTOR	
IL-R-10509/2	1	0307	R7'					1	1	81349	RN6001472F	RESISTOR	
IL=R-11/8	1	0308	R8						1	81349	RC07GF102K	RESISTOR	
	1	0309	R9						1	32997	3009P1-103	RESISTOR	
IL=R-10509/1	1	0310	R10					1	1	81349	RN60D1002F	RESISTOR	
IL-R-11/8	1	0311	RII						1	81349	RCO7GF102K	RESISTOR	
	I	0312	R12						1	32997	3009pi=103	RESISTOR	
11-8-10509/1	1	0313	R13					1	1	81349	RN6005111F	RESISTOR	1
IL-R-10509/I	1	0314	R14						1	81349	RN60D1002F	RESISTOR	
IL-R-11/8	I	0315	R15					1	1	81349	RC07GF102K	RESISTOR	1
													1
1220 (A/A0)	1	<u> </u>	<u>l</u>				1	<u> </u>	<u> </u>				J.

SPECIFICATION	STATUS	SHEET/	PAR1	rs ı	LIST		E/I	I. NEW YOR	K. N	Ϋ́	CAMDEN PLANT	REV LTR	49671	PL 8373015	SHEI 04
	DWG	NO.	ITEM OR	Q	TY REQU	PER	DASH N	0.	U	CODE	PART OR			NOMENCLATURE OR	
	Δ		FIND NO.	505	504	503	502	501	M	IDENT	IDENTIFYING I	NO.		DESCRIPTION	
		0401	TJ1							00=40	2 500040				
		12110								00779	3-582340-1		JACK, TE		1
	I	0402	TJZ					1		00779	3-582340-2		JACK, TE		
	I	0403	7.13					1		00779	3-582340-3		JACK, TE	ST-DRG	
	1	0404	TJ4					1		00779	3-582340-4		JACK, TE	ST-YEL	
	1	0405	TJS					1		00779	3-582340-5		JACK, TE	ST#GRN	
	1	0407	7,10					1		00779	3-582340-10		JACK-TES	T, BLK	. [
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SPECIFICATION	STATUS	SHEET/ LINE	PART	rs L	IST	1	E/I		RK. N	Υ.	CAMDEN PLANT REV	49671 PL #373013	SHE
	DWG	NO.	ITEM OR	, O	TY REQU	PER	DASH N	10.	U	CODE	PART OR	NOMENCLATURE OR	
	5		FIND NO.	505	504	503	502	501	M	IDENT	IDENTIFYING NO.	DESCRIPTION	
	'												
									1				
													i inge
	1	0503	וט					1		04713	MC86015	INTEGRATED CIRCUIT	
	1	0504	U2					1	1	04713	MC8601L	INTEGRATED CIRCUIT	
	1	0505	U3					1		04713	HC8601L	INTEGRATED CIRCUIT	
			l l						1	i			
	1	0506	U4					1		04713	HC8601L	INTEGRATED CIRCUIT	
	1	0507	U5				}	1		04713	MC8601L	INTEGRATED CIRCUIT	
	1	0508	US]	١,		04713	MC8601L	INTEGRATED CIRCUIT	
							100					Age of the second secon	
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				13.54									
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SPECIFICATION	STATUS	SHEET/	PAR'	TS	LIST		C/I		RK. N	Y	CAMDEN PLANT REV LTR	49671 PL •>73015
	DWG	NO.	ITEM OR FIND NO.	505	TY REQD	PER 503	DASH N	0. 501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
	P	0601	1					X			8674013	SPUEM ROLES BURERIAL BURE
	P	0602	2					×			8373014	SCHEM DIAG; EXTERNAL SYNC
	1	0604	4					×			8030018	WORKHANSHIP SPEC, BASIC
	P	0607	7					1			8673774-8	HANDLE-BOARD
	ı	0610	10									
	•	0910	10								8524995=1	SPACER, TRANSISTOR
	1	0614	14					AR			8533343-8	CEMENT
	1	0615	15			(1) V. 100		AR			2010105-22	COPPER WIRE, ROUNG, TINNED
	1	0616	16					AR			2010909-812	INSULATING TUBING
	1	0617	17					AR			2010654-320	SOLDER, TIN-LEAD ALLOY
	1	0618	18		1 1			AR			2010573-1	FLUX, SOLDERING, ALCHLEROSIN

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Multiple Pages Missing from Available Version

PARTS LIST		RC/		RCA CORPORATION NEW YORK, NY CAMDEN PLANT	REVISION DATE	PL 86737	'57	REV LTR
IST TITLE:				PREPARED BY DATE	REL	CODE IDENT NO. 49671	SHI	S SHEETS
	BOARD ASSEMBLY	8673734-50	1 SKYLAB-GS	E CHECKED BY DATE		CONTRACT NO.		
	BESSEL FILTER/ EQUALIZER	NEXT ASSY	USED ON	DESIGN ACTIVITY APPD DATE	-	NAS 8-2	7968	
-		FIRST	APPLICATION					
TR	DESCRIPTION	DATE AP	REVISIONS PROVED LTR	DESCRIPT	ION		DATE	APPROVED
			/MBOLS USED AS FO					
	UNITS OF MEASURI	E (UM) QUANTI	ries	SYMBOL				
	A — Inches H — Barrels B — Feet J — Polund C — Yards L — Pair D — Ounces M — Set E — Pints N — Kit F — Quarts P — Roll G — Gallons R — Box, Ca	O-For	ment furnish	customer ed and	n or			

SPECIFICATION	STATUS	SHEET/	PAR	TS L	IST		B/I	(, NEW YOR	K, N	Y.	CAMDEN PLANT REV		SHEE 02
	DWG	NO.	ITEM OR FIND NO.	Q' 505	TY REQD	PER I	DASH N	0. 501	U M	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	1
]L-C-9/18	1	0201	81				-	1		81349	CMOSFOLOLJOS	CAPACITOR	
16-C-5/1g	1	0202	c.e					1		81349	CM06FD472J03	CAPACITOR	
16-C-5/18	1	0203	63					1	19.1	91349	CM06FD182J03	CAPACITOR	ŀ
IL=C=5/18	1	0204	24					1		61349	CMO6FD112JOS	CAPACITOR	
[L=C=5/18		0205	CS					1		81349	CM09F0241J08	CAPACITOR	
													-
						ise autor	i de est. Galeria						
										_			
	1	0209	Li					1		72259	WEEVL15	COIL	
	1	0210	L2					1		72259	WEEVL8.2	COIL, VARIABLE	
		0211	La					1	45.	72239	WEEVL3.9	COIL (NY TRONICS)	
		J											
	1											생생하는 사람이 그렇게 살다.	
		0218	51								8977890-1	SWITCH, TOOGLE	
	1.	7	*										

DEC 1320 (6/69)



SPECIFICATION	STATUS	SHEET/	PAR1	ΓS₋L	IST		E/I	N. NEW YO	RK, N. Y.	CAMDEN PLANT REL	CODE IDENT PL 3673757 SHE 03
	DWG	NO.	ITEM OR FIND NO.	QT 50 5	Y REQU	PER	DASH N	0. 501	U CODE		NOMENCLATURE OR DESCRIPTION
	P	0301	1	- 505	504	1.503	502_	301		8672810	SCHEM DIAG, BESSEL FLTR/EQL
	P	0203	2					I		8673761	MA PATT-FW, BESSEL FLTR/EQL
	P	0303	3					I		8673762	MARKING DAG, BESSEL FITE/EQL
	I	0304	L					I		8030018	WORKMANSHIP SPEC, BASIC
	I	0305	5					x		2020463	MARKING METAL AND PLASTIC SH
	I	0309	9					AR		6983173-1	PAINT, NARKING WHITE
	I	0310	10					11		8550137-2	TERMINAL
	ı	0315	15					AR		999127-9	WIRE, MECTRICAL
	-	٠,٠٠									
	I	0317	17					AR		2010858-320	SOLDER, TIN-LEAD ALLOY
	I	0318	18					AR		201(/573-1	FINE, SOLDERING, ALCHI-ROSIN

DEC 1320 (6/69)

PARTS LIST		REA		RCA CORPORATION NEW YORK, NY	PL 8375682				
LIST TITLE:				PHEPARED BY DATE John J. Ochonsir 5 AUGUST 1974		de ident no. 49671	SH OF	IEET 1 7 SHEETS	
C I E L	PE-MUX		ASTP	CHECKED BY DATE	CONTR	ACT NO.			
		MENT ASSY	ווס מבפע	DESIGN AUGIVITE NETO DATE	-	15-9	-157	57	
		F!RST APPL	ICATION				18		
			REVISIONS						
LTR	DESCRIPTION	DATE APPROV	ED LTR	DESCRIPT	ON		DATE	APPROVED	
	[인물 회사인] 고급살다는 교통된								
	다른 하다 제대로 호텔하고 되었다.								
	하 그들이 회사는 그를 들었다.								
	그렇다 하면 했는 글로 나를 하셨다.						1 1		
	요즘 통해, 당시가 많이 가장 말이 되었다. 보고도 하는데 나는데 이 사람들이 되었다.								
			DLS USED AS FOLLO						
	UNITS OF MEAS			SYMBOL					
	A — Inches	r O — For ref on	furnished K — Govt or cus		101				

SPECIFICATION	STATUS	SHEET/ LINE	PAR	rs l	LIST	177	BAR PREPARATION	141.	ORK, N		CAMDEN_PLANT REV	CODE IDENT PL 8375682 SI
	DWG	NO.	ITEM OR FIND NO.		TY REQU	PER	DASH N	10.	U	CODE	PART OR	NOMENCLATURE OR
	ō		FIND NO.	505	504	503	502	501	M	IDENT	IDENTIFYING NO.	DESCRIPTION
MIL-C-11015/19	1	0201	cı .						r v	81349	CK068X104K	CAPACITER
MIL-C-11015/19	1	0202	C2					1	i	81349	CK06BX104K	CAPACITUR
M1L-C-11015/19	1	0203	C3							81349	CK06BX104K	CAPACITOR
MIL-C-27287	1	0204	C4					1		81349	CTH104VAJ	CAPACITOR
MIL-C-27287/1	1	0205	C5					1		81349	CTM103VAJ	CAPACITOR
M1L-C-11015/19	1	0206	C6					,		61349	CK068X103K	CAPACITUR
M14-C-39003/1	1	0207	C7					1		81349	CSR13C107KM	CAPACITOR
M1L-C-5/18	1	0208	CB					1	1	61349	CM06FD561J03	CAPACITUR
MIL-C+5/18	1	0209	C9					i		81349	CM06FD561J03	CAPACITUR
M1L-C-5/18	1	0210	C10					1		81349	CM06FD332JD3	CAPACITOR
MIL-C-11015/19	1	0211	¢11					ī		81349	CK06BX104K	CAPACITOR
M1L-C-11015/19	1	0212	C12					1		81349	CK06BX104K	CAPACITOR
MIL-C-11015/19	1	0213	C13					ī		81349	CK06BX1C4K	CAPACITUR
MIL-C-11015/19	1	0214	C14					i		81349	CK068X104K	CAPACITOR
M1L-C-11015/19	1	0215	C15			•		ì		81349	CK06BX104K	CAPACITOR
		0216	C16					1		81349	CE11C150D	

6-117

SPECIFICATION	STATUS	SHEET/	PAR	rs I	LIST	[B/II		RK, N	:: : 	CAMDEN PLANT REV	CODE IDENT PL 8375682	SHE
	DMG	NO.	ITEM OR FIND NO.	50 5	TY REQU	PER 503	DASH N	0. 501	U	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
					alvalt N								
MIL-5-19500/116		6301 1	CR1							81349	JAN174148	DIUDE	- 1
MIL-S-19500/116	1	0302	CR2					i		61349	JAN1N4148	DIDDE	
	1	0305	P1							91662	00-7022-035-000-001	CONNECTOR	
										7,002			
MIL-R-11/8	1	0308	Rl					ī		81349	RC07GF103J	RESISTON	
MIL-R-11/8	I	0309	R2					1		81349	RCO7GF103J	RESISTOR	ļ
MIL-R-11/8	1	.031C	R3					Ĭ		81349	RC07GF104J	RESISTOR	
MIL=R=11/8	1	0311	R4					i		81349	RC07GF100J	RESISTOR	
MIL-R-11/8	ı	0312	R5					1		81349	RC07GF100J	RESISTOR	
MIL-R-11/8	1	0313	R6					i		81349	RC07GF183J	RESISTOR	
	I	0314	R7					1		80294	3009p1-503	RESISTOR	
MÌL-R-11/8	Ī	0315	R8					1		81349	RC07GF223J	RESISTOR	
41L-R-11/8	1	0316	R9					1		81349	RC07GF103J	RESISTOR	
11L-R-11/8	I	0317	RIO					ì		#1349	RC07GF103J	RESISTOR	
11L-R-11/8	1	0318	Rii					1		61349	RC07GF472J	RESISTOR	
11L-R-11/8	1	0319	R12					1		81349	RC076F103J	PESISTOR	

SPECIFICATION	STATUS	SHEET/	PAR1	rs L	.IST		EAT PREPORATION		RK, N		CAMDEN PLANT REV	CODE IDENT 49671 PL 8375682 SHE
	DWG	NO.	ITEM OR FIND NO.		Y REQD		DASH N		U	CODE	PART OR	NOMENCLATURE OR DESCRIPTION
				505	504	503	502	501	101	IDENT	IDENTIFYING NO.	DESCRIPTION
MTL-R-11/A	1	0401	R13					1		g1349	RC07GF102J	RESISTOR
MIL-R-11/8	1	0402	R14					1		81349	RCO7GF150J	RESISTOR
MIL-R-10509/1	1	0403	R15					1		81349	RN60D1002F	RESISTOR
	1	0404	R16					ī		80294	3009P1-103	RESISTOR
MIL-R-22684/1	1	0405	IR17					1		81349	RL07S512J	RESISTOR
MIL-R-11/8	1	0406	R18					i		81349	RC0757103J	RESISTOR
MIL-R-11/8	1	0407	R19					1		81349	RC07GF102J	RESISTOR
MIL-R-11/8	1	0408	R20					1		81349	RC07GF103J	RESISTOR
MIL-R-11/8	1	0409	R21					ĺ		81349	RC07GF102J	RESISTOR
MIL-R-11/8	1	0416	R22					1		81349	RC07GF102J	RESISTOR
MIL-R-11/8	1	0411	R23					1		81349	RC07GF112J	RESISTOR
MIL-R-11/8	1	0412	R24					1	7+t.	81349	RC07GF103J	RESISTOR
MIL-R-11/8	1	0413	R25					1		81349	RC07GF181J	RESISTOR
MIL-R-11/8	I	0414	R26					1		61349	RC07GF683J	RESISTOR
MIL_R-11	I	0415	R27	- 1				1		81349	RC20GF391J	RESISTOR
MIL-R-11/8	1	0416	R28					i		81349	RC07GF102J	RESISTOR
MIL-R-11/8	1	0417	R29					1		81349	RC07GF153J	RESISTOR

SPECIFICATION	STATUS	SHEET/	PAR	TS L	_IST		BAI		RK. N	y .	CAMDEN PLANT REV	CODE IDENT PL 8375682 S	HEI
	DWG	NO.	ITEM OR FIND NO.	9 5n5	TY REQD	PER 0	DASH N	0. 501	U M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
													1
	I	0501	TJI					1		00779	3-582340-1	JACK, TEST-BRN	
	1	0502	TJ2					1		00779	3-582340-2	JACK, TEST-RED	1
	1	0503	113					1		00779	3-582340-3	JACK, TEST-DRG	
	I	0504	TJ4					1		00779	3-582340-4	JACK, TEST-YEL	
	1	0505	TJ5					ĩ		00779	3-582340-5	JACK, TEST-GRN	
	1	0506	TJ6					1		00779	3-582340-6	JACK, TEST-BLU	1
	1	0507	137					1		00779	3-582340-7	JACK, TEST-VIOLET	
	I	051C	TJ10					Ĩ		00779	3-582340-0	JACK, TEST-BLK	
	I	0512	U1					1		04713	MC4044L	INTEGRATED CIRCUIT	
	I	0513	U2					1		04713	MC1458L	INTEGRATED CIRCUIT	
	ı	0514	U3					1		04713	MC4024L	INTEGRATED CIRCUIT	
	I	0515	U4		•]			1		04713	MC7490L	INTEGRATED CIRCUIT	
	I	0516	U5					1		04713	HC7473L	INTEGRATED CIRCUIT	
	ī	0517	U6					1		04713	MC7404L	INTEGRATED CURCUIT	
	I	0518	U 7					1		01295	SN74123J	INTEGRATED CIRCUIT	
		0519	บธ					1		04713	HC7400L	INTEGRATED CIRCUIT	

SPECIFICATION	STATUS	SHEET/	PAR1	rs L	.IST		IP ATT		RK, N	Y .	CAMDEN PLANT REV	
	DWG	NO.	ITEM OR FIND NO.	QT 505	Y REQD	9 PER 503	DASH N	0. 501	U M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
	I	0601	9					1		04713	MC7473L	INTEG-ATED CIRCUIT
시나 그런 그런 그림, 는 경기 경기 : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I	0602	N10					1		04713	MC7493L	INTEGRATED CIRCUIT
	1	0603	011					1		01295	SN74L04J	INTEGRATED CIRCUIT
	I	0504	N15					1		04713	MC7430L	INTEGRATED CIRCUIT
	1	0605	N13					i		04713	HC7400L	INTEGRATED CIRCUIT
	I	0606	U14					1		04713	MC7420L	INTEGRATED CIRCUIT
	I	0607	U15					1		04713	MC7493L	INTEGRATED CIRCUIT
	1	0608	U16					Ĩ		04713	MC1710L	INTEGRATED CIRCUIT
	1	0609	U17					1		01295	SN74164J	INTEGRATED CIRCUIT
	1	0610	U18					1		01295	SN74164J	INTEGRATED CIRCUIT
	1	0611	U19					1		01295	SN74164J	INTEGRATED CIRCUIT
	1	0612	U20		1			1		01295	SN74164J	INTEGRATED CIRCUIT
IL-S-19500/127	1	0615	VR1					1		81349	JAN1N751A	DIDDE, ZENER
IL-S-19500/127	1	0616	VR2					1		81349	JAN1N753A	DIDDE, ZENER
IL-S-19500/117	1	0617	VR3					1		81349	JAN1N963B	DIDDE

SPECIFICATION	STATUS	SHEET/ LINE	PART	rs I	LIST	1975 =	BAT PREPORATION	N, HEW YO	RK, N.	.	CAMDEN PLANT REV	CODE IDENT PL 8375682 SH
	DWG	NO.	ITEM OR FIND NO.	50 5	TY REQD	PER 503	DASH N	0. 501	U M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
	,	0701						×			8375684	SCHEMATIC CTF DEMUX
기의 최기 경기 기능한 설립 - 설립하는 기계 기능이 되 - 프로젝트 프립니티 기	P	0702	2					x			8676332	MA PATT_PW, CTE DENUX
		0704						×			8030018	WORKHANSHIP SPEC, RASIC
	Þ	0707	7					.			8673774	HANDLE-BOAPD
	1	0709	•					11111			8505806-4	MOUNTING PAD TO-5 PACKAGE
	1	071C	10					11111			8524995-1	SPACER, TRANSISTOR
										N.		
	1	0714	14					AR			8533343-5	CEMENT
	1	0715	15					AR			2010105-22	COPPER WIRE, ROUND, TINNED
	1	0716	16					AR			2010909-812	INSULATING TUBING
	I	0717	17 18					AR AR			2010858-320	SOLDER, TIN-LEAD ALLOY FLUX, SOLDERING, ALCHL-ROSIN

PARTS LIST		ROM		RCA CORPORATION NEW YORK, NY REVISION DATE	PL 867634! REV LTR		
DISPLAY				PREPARED BY DATE REL Advin 4. Ochinsir 5 August 1974	1	HEET 1 F 3 SHEETS	
DISPLAT	'''		ASTP	CHECKED BY DATE	CONTRACT NO.		
		NEXT VOSA	USEN M!	DESIGN ACTIVITY ATY D DATE	NAS-9-13	167	
		FIRST APPL			1		
LTR DESC	CRIPTION	DATE APPROV	REVISIONS ED ILTR I	DESCRIPTION	I DATE	APPROVED	
	UNITS OF MEASURE (UM)	QUANTITIES	OLS USED AS FOLLO	SYMBOL			
	A—Inches H—Barrels T—Eac B—Feet J—Pounds C—Yards L—Pair D—Ounces M—Set E—Pints N—Kit F—Cua::s P—Roll G—Gallons R—Box, Case		furnished	stomer *— Vendor item. See specification or source control drawing.			

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SPECIFICATION	STATUS	SHEET/	PAR	TS I	LIST	RCA CO	BAN RPORATION	N, NEW YO	RK, N		CAMDEN PLANT REV	CODE IDENT 49671 PL 8575341 SH	SHEET
	DWG	NO.	ITEM OF	505	TY REQD	PER 1	DASH N	0. 501	U	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	37
	1	0201	Al					3		28480	HP5082-7300	LED DISPLAY	
	1	0202	A2					ī		28480	HP5082-7300	LED DISPLAY	l
	1	0203	A3					1		28480	HP5082-7300	LED DISPLAY	
	1	0204	A4					1		28480	HP5082-7300	LED DISPLAY	
	1	0205	A5					1		28480	HP5082-7300	LED DISPLAY	
	1	0206	46					1		28480	HP5082=7300	LED DISPLAY	
	1	0207	A7					1		28480	HP5082-7300	LED DISPLAY	
	1	0208	A8					1		28480	HP5082-7300	LED DISPLAY	
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SPECIFICATION	STATUS	SHEET/	PA	RT	TS L	_IST		B AI		ORK. N		CAMDEN PLANT REV	CODE IDENT PL 8576341 St
	DWG	NO.	ITEM FIND	OR NO.	Q 505	TY REQI	503	DASH N	501	M	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
						erana. He i							
		0302	2	1					x			8371958	SCHEMATIC CTE DISPLAY
	1	0303	3					x	x			8030022	WORKMANSHIP, NASA COMPLIANT
	1	0304	4	ľ				X	x			2020319	MECZD & MNL SOLDERING PROCESS
	1	0305	5						X			2020341	MSTRE & FP COATING-ELEC PTS
	1	0306	6						x			2020999	ADHESIVE BONDING COMP TO PAB
				-									
	E	0310	-10						×			8676340	MA PATT DIPLAY, GSE
	E	0311	11						,			8676341-502	DISPLAY GSE
	E	0312	12	1				1				8676340-1	BD PW
	1	0313	13					27				8153202-1	TERMINAL
1-5-571	1	0315	15						AR		81348	SN63WRAP2	SOLDER
· · · · · · · · · · · · · · · · · · ·		0316	16						AR			2010573-1	FLUX, SOLDERING, ALCHL-ROSIN
	1	0317	17				 -		AR			2016185	EPOXY-POLYAMIDE COATING
		0318	18						AR "			8533343	EPDXY FORMULATIONS
			-										

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